JVC

AUDIO/VIDEO CONTROL RECEIVER

AUDIO/VIDEO-RECEIVER MIT STEUEREINHEIT
AMPLI/TUNER DE COMMANDE AUDIO/VIDEO
GEINTEGREERDE AUDIO/VIDEO-VERSTERKER
RECEPTOR DE CONTROL DE AUDIO/VÍDEO
RICEVITORE DI CONTROLLO AUDIO/VIDEO

RX-884RBK

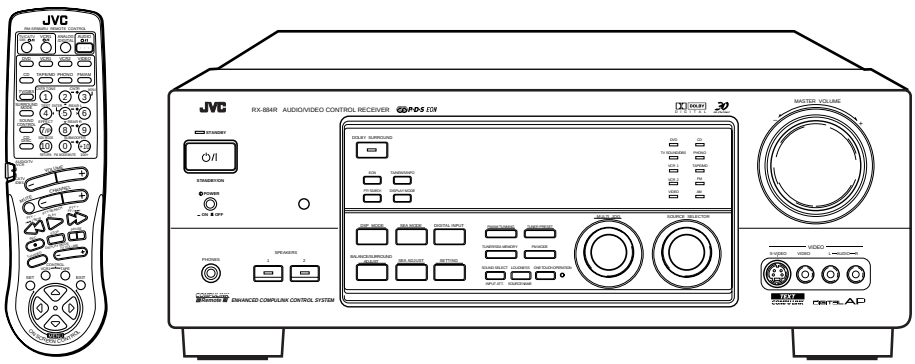
TEXT
COMPU LINK

COMPU LINK
Remote

3D-PHONIC

digital AP

DOLBY
DIGITAL



INSTRUCTIONS

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING
MANUAL DE INSTRUCCIONES
ISTRUZIONI

For Customer Use:

Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

LVT0016-001A
[E]

Warnings, Cautions and Others/Warnung, Achtung und sonstige Hinweise/ Mises en garde, précautions et indications diverses/Waarschuwingen, voorzorgen en andere mededelingen/Avisos, precauciones y otras notas/ Avvertenze e precauzioni da osservare

IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT.

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

Per l'Italia:
"Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n.548 del 28/08/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n.301 del 28/12/95."

CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

ACHTUNG
Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw:
1. Keine Schrauben lösen oder Abdeckungen enternen und nicht das Gehäuse öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

ATTENTION
Afin d'éviter tout risque d'électrocution, d'incendie, etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

VOORZICHTIG
Ter vermindering van gevaar voor brand, elektrische schokken, enz.:
1. Verwijder geen schroeven, panelen of de behuizing.
2. Stel dit toestel niet bloot aan regen of vocht.

PRECAUCIÓN
Para reducir riesgos de choques eléctricos, incendio, etc.:
1. No extraiga los tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

ATTENZIONE
Per ridurre il rischio di scosse elettriche, incendi, ecc...
1. Non togliere viti, coperchi o la scatola.
2. Non esporre l'apparecchio alla piogggia e all'umidità.

Caution –– ⏀ POWER switch and STANDBY/ON ⏻/I button!
This apparatus is provided with a ⏀ POWER switch to be able to minimize power consumption for safe use. Therefore,
1. When doing initial setting, complete all the connections required, connect the mains plug into the wall outlet, and set the ⏀ POWER switch to ON. After these, it will be available to operate STANDBY/ON ⏻/I button and so on.
2. When not in use, set the ⏀ POWER switch to OFF.
3. Disconnect the mains plug to shut the power off completely. The ⏀ POWER switch and STANDBY/ON ⏻/I button in any position do not disconnect the mains line.
4. The power can be remote controlled.

Achtung –– ⏀ POWER-Schalter und STANDBY/ON ⏻/I-Taste!
Dieses Gerät hat einen Netzschalter (⏀ POWER), um den Stromverbrauch für sichere Verwendung auf ein Minimum bringen zu können. Verfahren Sie deshalb wie folgt:
1. Beim ursprünglichen Aufbau alle erforderlichen Anschlüsse herstellen, den Netzstecker in eine Wandsteckdose stecken, und den ⏀ POWER-Schalter einschalten. Anschließend ist Betrieb der STANDBY/ON ⏻/I-Taste usw. möglich.
2. Wenn das Gerät nicht verwendet wird, den ⏀ POWER-Schalter ausschalten.
3. Den Netzstecker aus der Steckdose ziehen, um die Stromversorgung vollkommen zu unterbrechen. Der ⏀ POWER-Schalter und die STANDBY/ON ⏻/I-Taste unterbrechen in keiner Stellung die Stromversorgung vollkommen.
4. Die Stromversorgung kann mit der Fernbedienung ein- und ausgeschaltet werden.

Attention — Commutateur ⏀ POWER et d'une touche STANDBY/ON ⏻/I!
Cet appareil est équipé d'un commutateur ⏀ POWER qui lui permet de réduire sa consommation d'électricité pour une utilisation plus sûre. Par conséquent,
1. En procédant au réglage initial, compléter toutes les connexions nécessaires, connecter la fiche secteur dans la prise murale et mettre le commutateur ⏀ POWER sur la position ON. Ensuite, il sera possible de contrôler la touche STANDBY/ON ⏻/I, etc.
2. Mettre le commutateur ⏀ POWER sur la position OFF lorsque l'appareil n'est pas utilisé.
3. Déconnecter la fiche secteur pour couper complètement le courant. Le commutateur ⏀ POWER et la touche STANDBY/ON ⏻/I ne coupent jamais complètement l'alimentation, quelle que soit leurs positions.
4. L'alimentation peut être télécommandée.

Voorzichtig –– ⏀ POWER en STANDBY/ON ⏻/I schakelaars!
Dit apparaat is voorzien van een ⏀ POWER hoofdschakelaar om het apparaat gebruiksklaar te zetten, maar te zorgen dat het stroomverbruik minimaal blijft. Neem in verband hiermee het volgende in acht:
1. Bij de eerste ingebruikneming zorgt u eerst dat alle aansluitingen in orde zijn, dan steekt u de stekker in het stopkontakt en dan zet u de ⏀ POWER schakelaar in de "ON" stand. Daarna kunt u het apparaat aan- en uitschakelen met de STANDBY/ON ⏻/I schakelaar.
2. Wanneer u het apparaat geruime tijd niet gebruikt, kunt u beter de ⏀ POWER schakelaar in de "OFF" stand zetten.
3. Om de stroomtoevoer geheel uit te schakelen, trekt u de stekker uit het stopkontakt. Anders zal er altijd een geringe hoeveelheid stroom naar het apparaat lopen, ongeacht de stand van de STANDBY/ON ⏻/I en de ⏀ POWER.
4. U kunt het apparaat ook met de afstandsbediening aan- en uitschakelen.

Precaución –– Interruptor ⏀ POWER y botón STANDBY/ON ⏻/I!
Esta unidad dispone de un interruptor ⏀ POWER que sirve para reducir al mínimo el consumo de alimentación para proporcionar mayor seguridad operacional. Por lo tanto,
1. Al ejecutar el ajuste inicial, después de completar todas las conexiones requeridas, conectar el cable de alimentación a una toma de pared, y activar el interruptor ⏀ POWER. Entonces, será posible ejecutar operaciones tales como la conmutación del estado de alimentación.
2. Desactivar el interruptor ⏀ POWER al dejar la unidad fuera de uso.
3. Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajustes del interruptor ⏀ POWER y el botón STANDBY/ON ⏻/I, la alimentación no es cortada completamente.
4. La alimentación puede ser controlada remotamente.

Attenzione –– Interruttore ⏀ POWER e tasto STANDBY/ON ⏻/I!
Per ridurre al minimo l'assorbimento di corrente ai fini della sicurezza, questo apparecchio è stato dodato di un interruttore ⏀ POWER. Di conseguenza,
1. Al momento dell'impostazione iniziale, completare tutti i collegamenti richiesti, inserire la spina del cavo di alimentazione nella presa a muro della rete elettrica e impostare l'interruttore ⏀ POWER in posizione ON. Fatto ciò, sarà pronto all'uso STANDBY/ON ⏻/I.
2. Quando non in uso, impostare l'interruttore ⏀ POWER in posizione OFF.
3. Disinserire la spina del cavo di alimentazione dalla presa della rete elettrica per staccare completamente l'alimentazione. L'interruttore ⏀ POWER e il tasto STANDBY/ON ⏻/I in nessuna posizione staccano la linea di alimentazione elettrica principale.
4. È possibile il controllo remoto dell'alimentazione.

Caution: Proper Ventilation
To avoide risk of electric shock and fire and to protect from damage. Locate the apparatus as follows:
Front: No obstructions open spacing.
Sides: No obstructions in 10 cm from the sides.
Top: No obstructions in 10 cm from the top.
Back: No obstructions in 15 cm from the back
Bottom: No obstructions, place on the level surface.
In addition, maintain the best possible air circulation as illustrated.

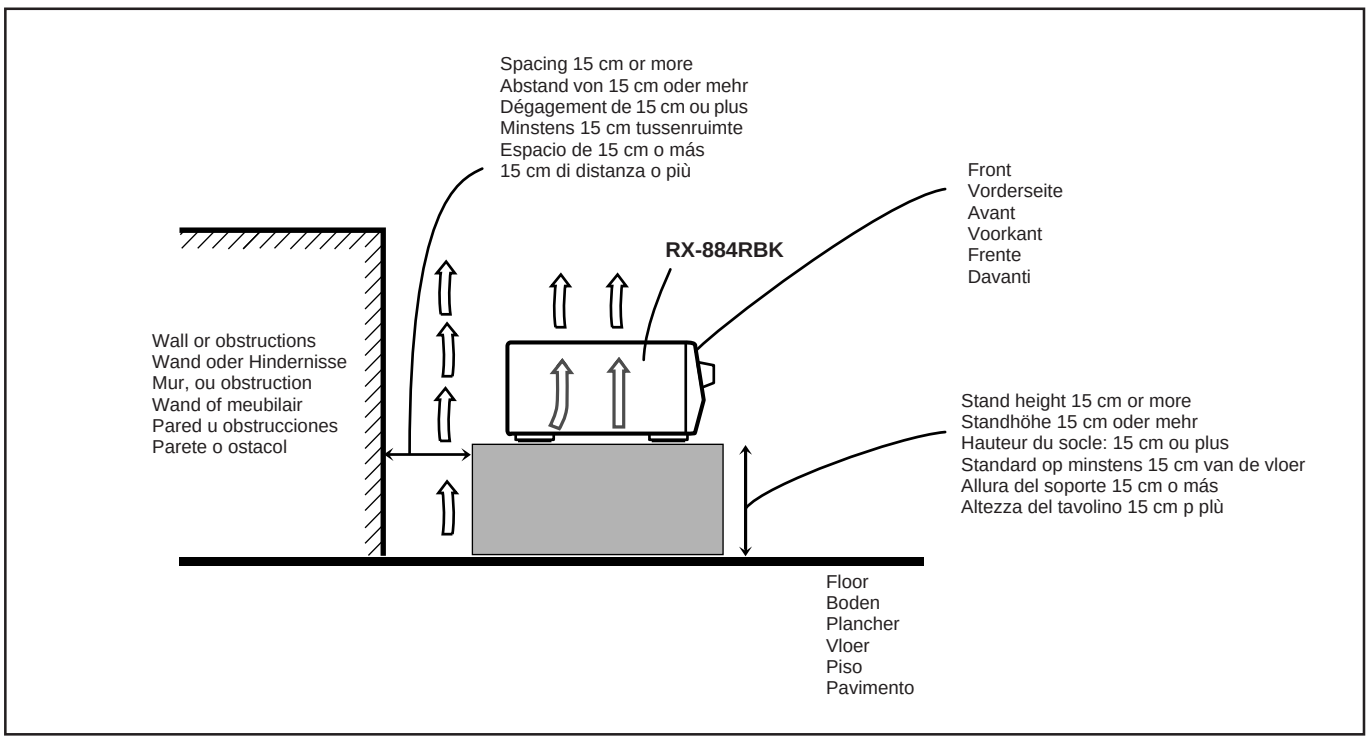
Achtung: Angemessene Ventilation
Stellen Sie das Gerät zur Verhütung von elektrischem Schlag und Feuer und zum Schutz gegen Beschädigung wie folgt auf:
Vorderseite: Offener Platz ohne Hindernisse.
Seiten: Keine Hindernisse innerhalb 10 cm von den Seiten.
Oberseite: Keine Hindernisse innerhalb 10 cm von der Oberseite.
Rückseite: Keine Hindernisse innerhalb 15 cm von der Rückseite.
Unterseite: Keine Hindernisse. Auf eine ebene Oberfläche stellen.
Zusätzlich die bestmögliche Luftzirkulation wie gezeigt erhalten.

Attention: Ventilation Correcte
Pour éviter les chocs électriques, l'incendie et tout autre dégât.
Disposer l'appareil en tenant compte des impératifs suivants
Avant: Rien ne doit gêner le dégagement
Flancs: Laisser 10 cm de dégagement latéral
Dessus: Laisser 10 cm de dégagement supérieur
Arrière: Laisser 15 cm de dégagement arrière
Dessous: Rien ne doit obstruer par dessous; poser l'appareil sur une surface plate.
Veiller également à ce que l'air circule le mieux possible comme illustré.

Voorzichtig: Zorg Voor Goede Ventilatie
Om gevaar voor brand of een elektrische schok te voorkomen, dient u bij opstelling van het apparaat op de volgende punten te letten:
Voorkant: Voldoende ruimte vrij houden.
Zijkanten: Minstens 10 cm aan weerszijden vrij houden.
Bovenkant: Niets bovenop plaatsen; 10 cm speling geven.
Achterkant: Minstens 15 cm ruimte achteraan vrij houden.
Onderkant: Opstellen op een egaal horizontaal oppervlak.
Bovendien moet er rondom voldoende luchtdoorstroming zijn, zoals in de afbeelding aangegeven.

Precaución: Ventilación Adecuada
Para evitar el riesgo de choque eléctrico e incendio y para proteger el aparato contra daños.
Ubique el aparato de la siguiente manera:
Frente: Espacio abierto sin obstrucciones
Lados: 10 cm sin obstrucciones a los lados
Parte superior: 10 cm sin obstrucciones en la parte superior
Parte trasera: 15 cm sin obstrucciones en la parte trasera
Fondo: Sin obstrucciones, colóquelo sobre una superficie nivelada
Además, mantenga la mejor circulación de aire posible como se ilustra.

Attenzione: Problemi di Ventilazione
Per evitare il rischio di folgorazioni ed incendi e proteggere l'unità da danni, installarla nel modo seguente.
Davanti: Nessun ostacolo, spazio libero
Lati: Nessun ostacolo per almeno 10 cm
Sopra: Nessun ostacolo per almeno 10 cm
Retro: Nessun ostacolo per almeno 15 cm
Fondo: Libero ed in piano
Inoltre, mantenere il più possibile la circolazione dell'aria.



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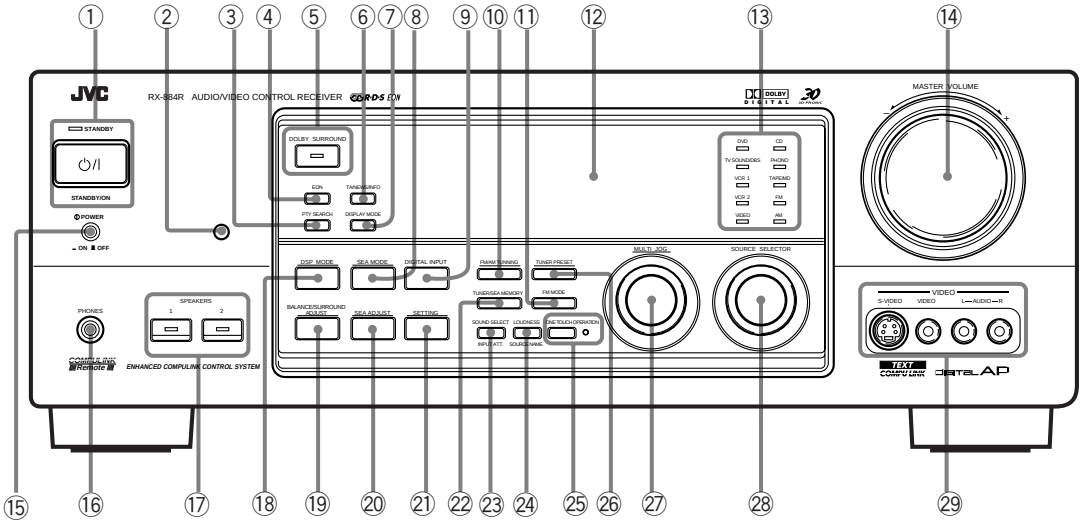
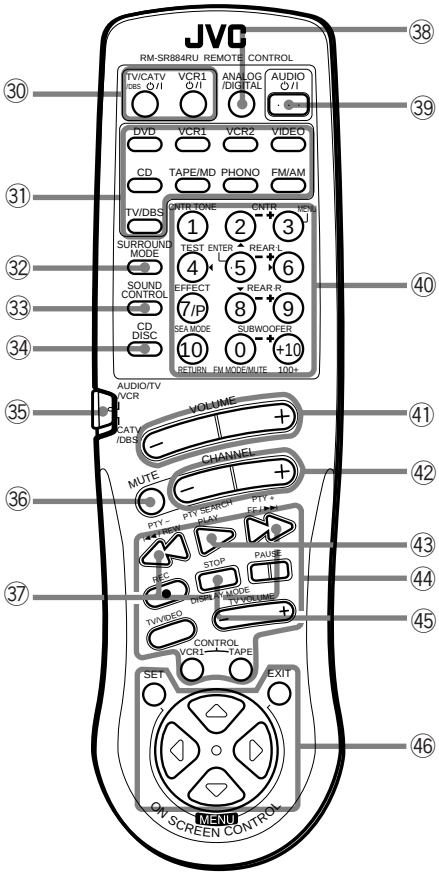
English

Parts Identification

Become familiar with the buttons and controls on the receiver before use.



Refer to the pages in parentheses for details.



Front Panel

① STANDBY/ON ⏻/I button and STANDBY lamp (14)
② Remote sensor (13)
③ PTY SEARCH button (28)
④ EON button (30)
⑤ DOLBY SURROUND button and lamp (42)
⑥ TA/NEWS/INFO button (30)
⑦ DISPLAY MODE button (27)
⑧ SEA MODE button (32) *
⑨ DIGITAL INPUT button (18)
⑩ FM/AM TUNING button (24) *
⑪ FM MODE button (25)
⑫ Display (14)
⑬ Source lamps (14)
⑭ MASTER VOLUME control (15)
⑮ ⏻ POWER switch (13)
⑯ PHONES jack (16)
⑰ SPEAKERS 1/2 buttons and lamps (16)
⑱ DSP MODE button (35) *
⑲ BALANCE/SURROUND ADJUST button (19, 36) *
⑳ SEA ADJUST button (33) *
㉑ SETTING button (19) *
㉒ TUNER/SEA MEMORY button (24, 26, 33)
㉓ SOUND SELECT/INPUT ATT. button (15, 17)
㉔ LOUDNESS/SOURCE NAME button (18, 19)
㉕ ONE TOUCH OPERATION button and lamp (23)
㉖ TUNER PRESET button (25) *
㉗ MULTI JOG control
What this control actually does depends on which function you are trying to adjust. Before using this control, select the function by pressing one of the buttons marked with *.
㉘ SOURCE SELECTOR control (14)
㉙ VIDEO input jacks (11)

Remote Control

㉚ TV/CATV/DBS ⏻/I and VCR1 ⏻/I buttons (65, 66)
㉛ Source selecting buttons (15)
㉜ SURROUND MODE button (37)
㉝ SOUND CONTROL button (32, 37, 63)
㉞ CD DISC button (64)
㉟ Remote control mode selector (AUDIO/TV/VCR, CATV/DBS) (14, 63, 67)
To operate an audio system, TV, and VCR, set this selector to "AUDIO/TV/VCR."
To operate a CATV converter and DBS tuner, set this selector to "CATV/DBS."
㊱ MUTE button (16)
㊲ PTY buttons (+/–) (29)
㊳ ANALOG/DIGITAL button (18)
㊴ AUDIO ⏻/I button (14)
㊵ 10 keys for selecting preset channel (25)
10 keys for adjusting sound (32, 37)
10 keys for operating audio/video components (63, 67)
㊶ VOLUME buttons (+/–) (15)
㊷ CHANNEL buttons (+/–) (65, 67)
㊸ PTY SEARCH button (29)
㊹ Operating buttons for audio/video components (63, 67)
㊺ DISPLAY MODE button (27)
㊻ MENU operating buttons (SET, EXIT, △, ▽, ◁, ▷) (47)

Getting Started

This section explains how to connect audio/video components and speakers to the receiver, and how to connect the power supply.

Before Installation

General

- Be sure your hands are dry.
- Turn the power off to all components.
- Read the manuals supplied with the components you are going to connect.

Locations

- Install the receiver in a location that is level and protected from moisture.
- The temperature around the receiver must be between –5˚ and 35˚ C (23˚ and 95˚ F).
- Make sure there is good ventilation around the receiver. Poor ventilation could cause overheating and damage the receiver.

Handling the receiver

- Do not insert any metal object into the receiver.
- Do not disassemble the receiver or remove screws, covers, or cabinet.
- Do not expose the receiver to rain or moisture.

Checking the Supplied Accessories

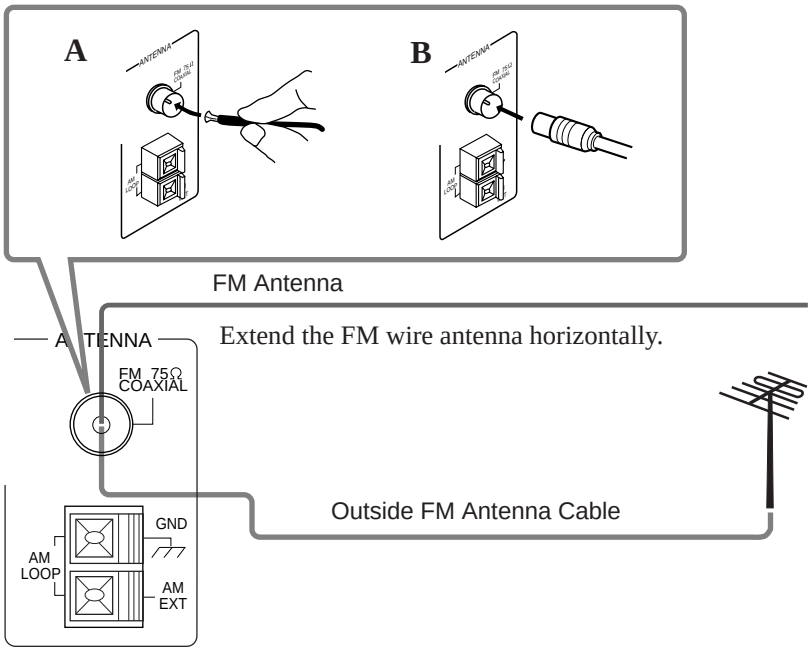
Check to be sure you have all of the following items, which are supplied with the receiver.
The number in the parentheses indicates quantity of the pieces supplied.

- **Remote Control (1)**
- **Batteries (2)**
- **AM (MW/LW) Loop Antenna (1)**
- **FM Antenna (1)**

If anything is missing, contact your dealer immediately.

Connecting the FM and AM (MW/LW) Antennas

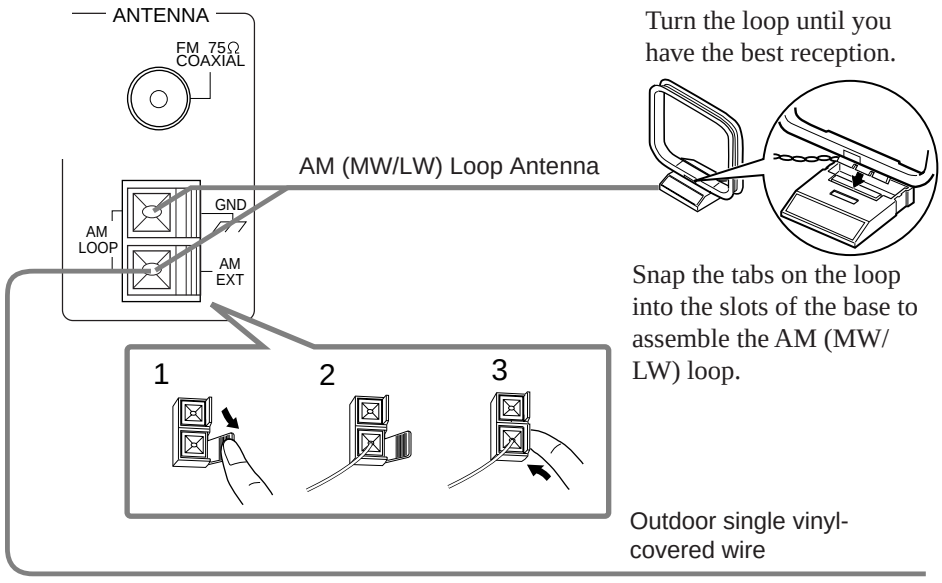
FM Antenna Connections



A. Using the Supplied FM Antenna
The FM antenna provided can be connected to the FM 75Ω COAXIAL terminal as temporary measure.

B. Using the Standard Type Connector (Not Supplied)
A standard type connector (IEC or DIN45325) should be connected to the FM 75Ω COAXIAL terminal.

AM (MW/LW) Antenna Connections



Note:

If reception is poor, connect the outside antenna.
Before attaching a 75Ω coaxial cable (the kind with a round wire going to an outside antenna), disconnect the supplied FM wire antenna.

Notes:

- *Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord. This could cause poor reception.*
- *If reception is poor, connect an outdoor single vinyl-covered wire to the AM EXT terminal. (Keep the AM (MW/LW) loop antenna connected.)*

Connecting the Speakers

You can connect the following speakers:
- Two pairs of front speakers to produce normal stereo sound.
- One pair of rear speakers to enjoy the surround effect.
- One center speaker to produce more effective surround effect (to emphasize human voices).
- One subwoofer to enhance the bass.

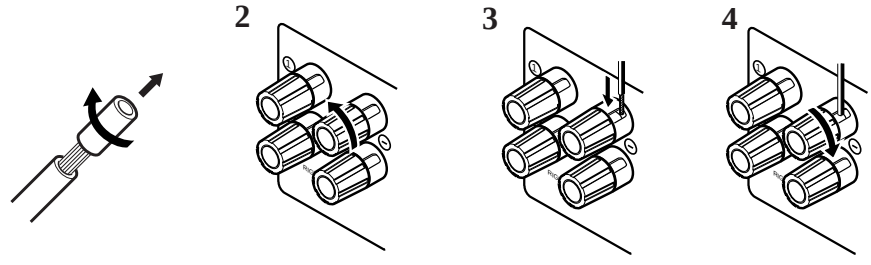
IMPORTANT:

After connecting the speakers listed above, set the speaker setting information properly to obtain the best possible performance. For details, see pages 19 and 20.

CAUTION:

Use speakers with the SPEAKER IMPEDANCE indicated by the speaker terminals.

For each speaker (except for subwoofer), connect the (–) and (+) terminals on the rear panel to the (–) and (+) terminals marked on the speakers. For connecting a subwoofer, see page 7.



1 Cut, twist and remove the insulation at the end of each speaker signal cable.

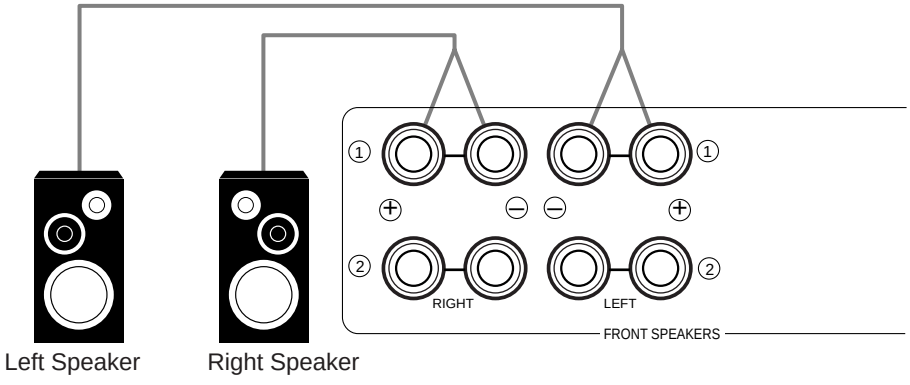
2 Turn the knob counterclockwise.

3 Insert the speaker signal cable.

4 Turn the knob clockwise.

Connecting the front speakers

Connect the front speakers to the FRONT SPEAKERS terminals.
You can connect two pairs of front speakers (one pair to the FRONT SPEAKERS ① terminals, and another pair to the FRONT SPEAKERS ② terminals).



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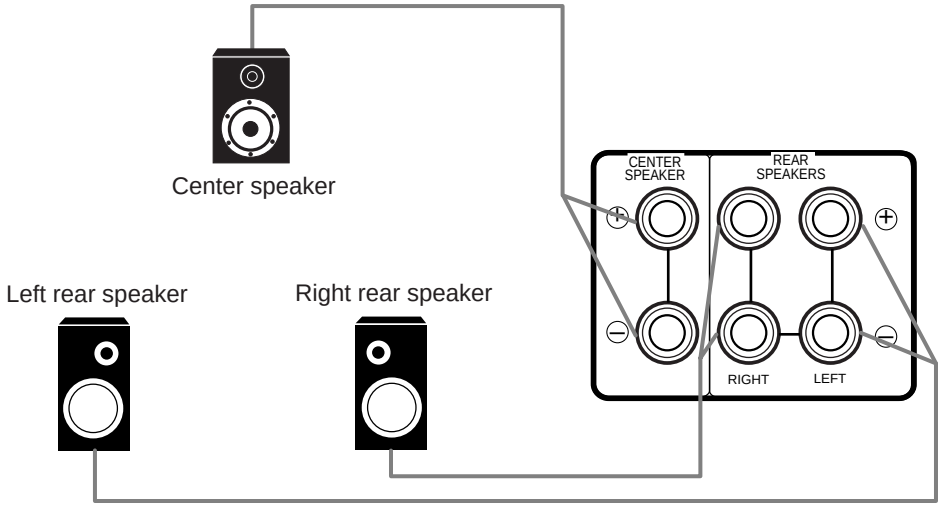
Connecting the rear and center speakers

Connect the rear speakers to the REAR SPEAKERS terminals and a center speaker to the CENTER SPEAKER terminals.



CAUTION:

Use speakers with the SPEAKER IMPEDANCE indicated by the speaker terminals.

Connecting the subwoofer speaker

Connect the input jack of a powered subwoofer to the SUBWOOFER OUT jack on the rear panel, using a cable with RCA pin plugs.

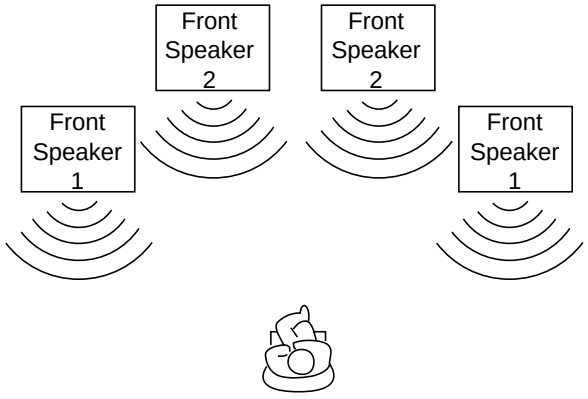
About the speaker impedance

The required speaker impedance of the front speakers does differ depending on whether both the FRONT SPEAKERS ① and FRONT SPEAKERS ② terminals are used or only one of them is used.

CASE 1 **When you connect only one set of front speakers**

Use front speakers with **4 — 16 ohm** impedance.

CASE 2 **When you connect two sets of front speakers**



Use front speakers with **8 — 16 ohm** impedance.

CAUTION:

When connecting speakers, use speakers with the same SPEAKER IMPEDANCE indicated by the speaker terminals.

Getting Started

Connecting Audio/Video Components

You can connect the following audio/video components to this receiver. Refer also to the manuals supplied with your components. If you want to connect a component not listed in the table below, refer to the manual supplied with it.

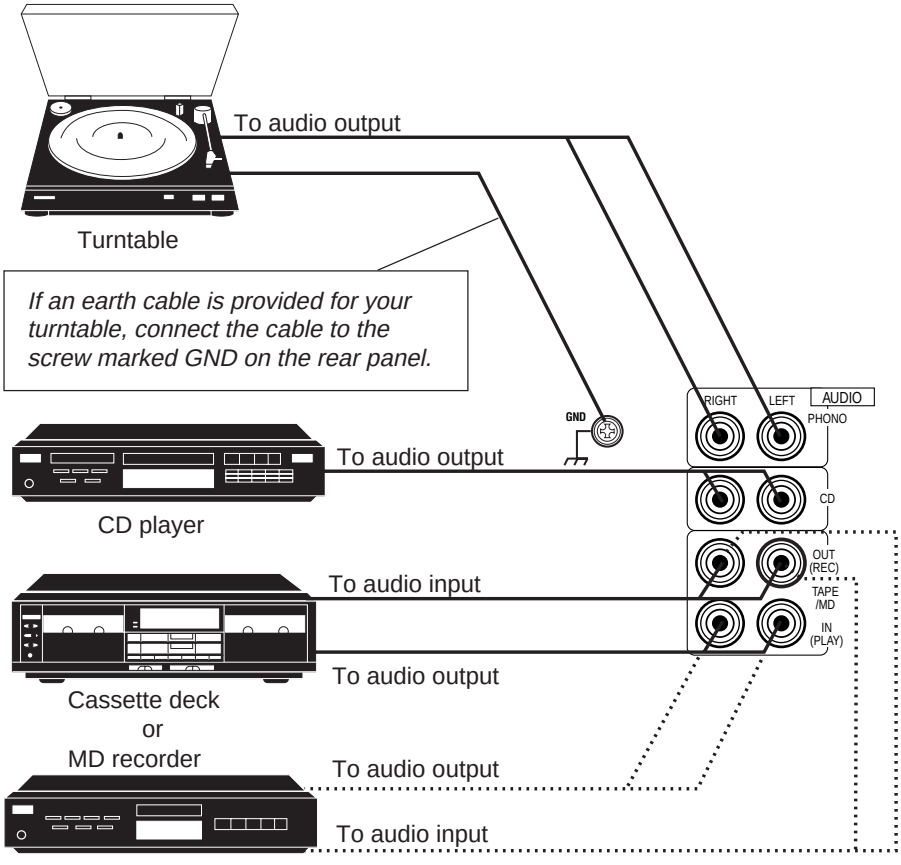
Audio Components	Video Components
• Turntable	• DVD player*
• CD player*	• TV
• Cassette deck or MD recorder*	• DBS tuner*
———————	• VCRs
———————	• Video camera

** You can connect these components using the methods described in "Analog connections" (below) or in "Digital connections" (see page 12).*

Analog connections

Audio component connections

Use the cables with RCA pin plugs (not supplied).
Connect the white plug to the audio left jack, and the red plug to the audio right jack.



If your audio components have a COMPU LINK-3 or TEXT COMPU LINK terminal

- See also page 55 for detailed information about the connection and the COMPU LINK-3 remote control system.
- See also page 56 for detailed information about the connection and the TEXT COMPU LINK remote control system.

CAUTION:

If you connect a sound-enhancing device such as a graphic equalizer between the source components and this receiver, the sound output through this receiver may be distorted.

Notes:

- *Any turntables incorporating a small-output cartridge such as an MC (moving-coil type) must be connected to this receiver through a commercial head amplifier or step-up transformer. Direct connection may result in insufficient volume.*
- *You can connect either a cassette deck or an MD recorder to the TAPE/MD jacks. When connecting an MD recorder to the TAPE/MD jacks, change the source name, which will be shown on the display when selected as the source, to "MD." See page 18 for details.*

Video component connections

Use the cables with RCA pin plugs (not supplied).
Connect the white plug to the audio left jack, the red plug to the audio right jack, and the yellow plug to the video jack.
If your video components have S-video (Y/C-separation) terminals, connect them using S-video cables (not supplied). Connecting these video components through the S-video input/output terminals will give you better picture playback (or recording) quality.

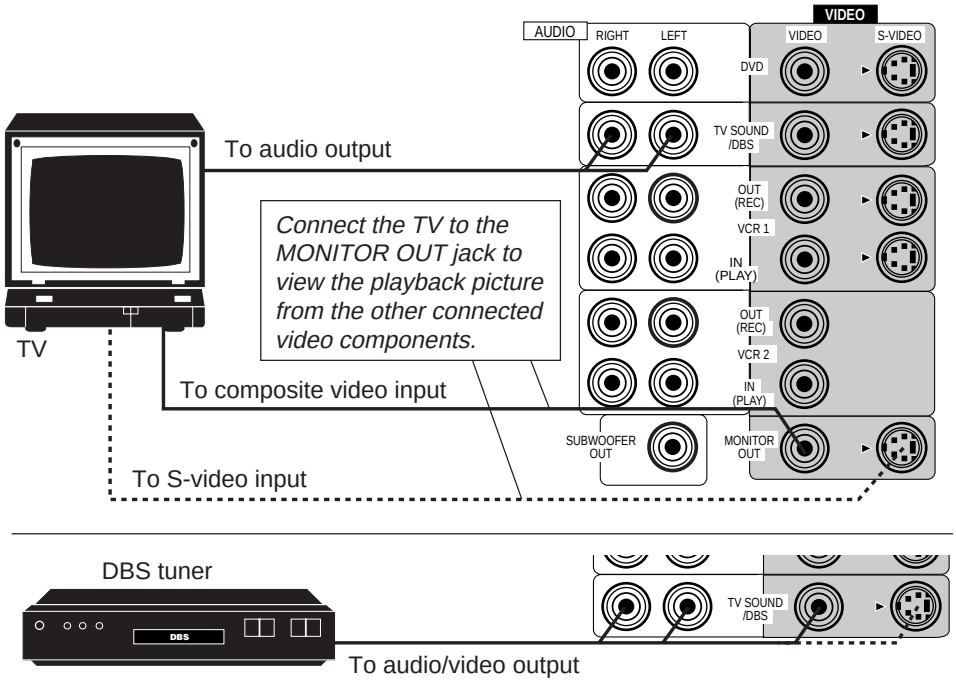
IMPORTANT:

This receiver is equipped with both the composite video and S-video input/output terminals for connecting video components.
You do not have to connect both the composite video and S-video terminals. However, **remember that the video signals from the composite video input terminals are output only through the composite video output terminals, while the ones from the S-video input terminals are output only through the S-video output terminals.**
Therefore, if a recording video component and a playing video component are connected to the receiver through the different video terminals, you cannot record the picture from the playing component on the recording component. In addition, if the TV and a playing video component are connected to the receiver through the different video terminals, you cannot view the playback picture from the playing component on the TV.

To view and record the playback picture from the video component connected to the VCR2 jacks, you must connect the TV and the recording video component through the composite video terminals.

Connecting the TV and/or DBS tuner

You can connect either the TV or DBS tuner to the TV SOUND/DBS jacks.

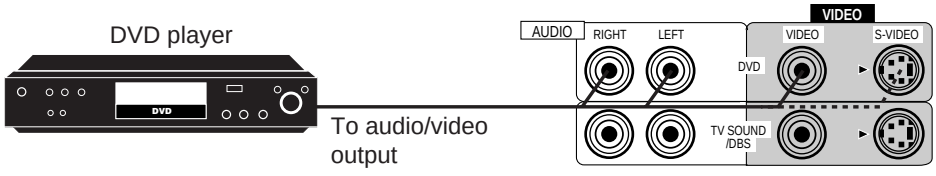


Notes:

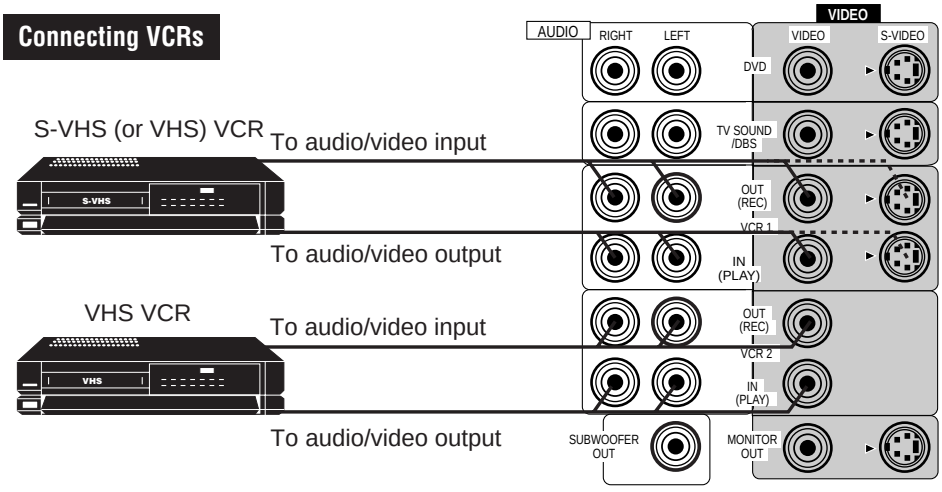
- *Use the video components of the PAL color system.*
- *When connecting the TV to the TV SOUND/DBS jacks, DO NOT connect the TV's video output to these video input terminals.*
- *When connecting the DBS tuner to the TV SOUND/DBS jacks, change the source name, which will be shown on the display when selected as the source, to "DBS." See page 18 for details.*
- *To enjoy Dolby Digital with the DBS tuner as the source, connect the DBS tuner using the method described in "Digital connections" on page 12.*

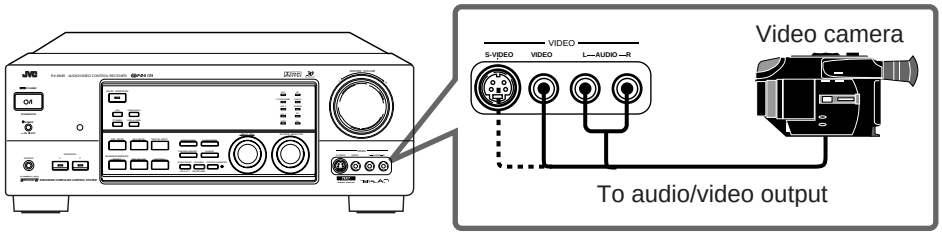
Getting Started

Connecting DVD player



Connecting VCRs



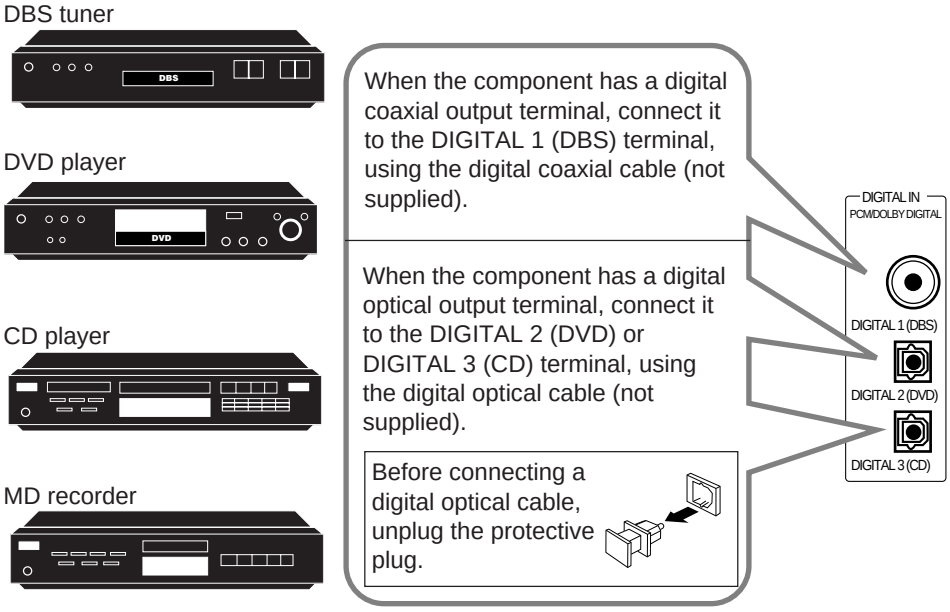


Note:

To enjoy Dolby Digital with the DVD player as the source, connect the DVD player, using the method described in "Digital connections" on page 12.

Digital connections

This receiver is equipped with three DIGITAL IN terminals — one digital coaxial terminal and two digital optical terminals.
To enjoy Dolby Digital, you have to connect the source components using the DIGITAL IN terminals.
You can connect any component to any one of the digital terminals using the digital coaxial cable (not supplied) or digital optical cable (not supplied).


DBS tuner
DBS
DVD player
DVD
CD player
MD recorder
When the component has a digital coaxial output terminal, connect it to the DIGITAL 1 (DBS) terminal, using the digital coaxial cable (not supplied).
When the component has a digital optical output terminal, connect it to the DIGITAL 2 (DVD) or DIGITAL 3 (CD) terminal, using the digital optical cable (not supplied).
Before connecting a digital optical cable, unplug the protective plug.
DIGITAL IN
PCM/DOLBY DIGITAL
DIGITAL 1 (DBS)
DIGITAL 2 (DVD)
DIGITAL 3 (CD)

IMPORTANT:

- When connecting the DVD player or the DBS tuner using the digital terminal, you also need to connect it to the video jack (either composite video terminal or S-video terminal) on the rear. Without connecting it to the video jack, you can view no playback picture.
- After connecting the above components using the DIGITAL IN terminals, set the following correctly if necessary.
  – Select the digital input mode correctly. For details, see “Selecting the Input Mode” on page 18.
  – Set the digital input (DIGITAL IN) terminal setting correctly. For details, see “Digital Input (DIGITAL IN) Terminal Setting” on page 20.

Notes:

- *When shipped from the factory, the DIGITAL IN terminals has been set for use with the following components.*
  – DIGITAL 1 (coaxial): For DBS tuner
  – DIGITAL 2 (optical): For DVD player
  – DIGITAL 3 (optical): For CD player
- *When you want to operate the CD player or MD recorder using the COMPU LINK remote control system, connect the target component also as described in “Analog connections” (see page 9).*

Getting Started

Connecting the Power Cord

Before plugging the receiver into an AC outlet, make sure that all connections have been made.

1. **Plug the power cord into an AC outlet.**

2. **Press ⏻ POWER to set it in the ▂ ON position.**
   The STANDBY lamp lights up. A small amount of power is always consumed.

To shut off the power completely

Press ⏻ POWER to set it in the ▉ OFF position.

Keep the power cord away from the connecting cables and the antenna. The power cord may cause noise or screen interference. We recommend that you use a coaxial cable to connect the antenna, since it is well-shielded against interference.

The difference between the ⏻ POWER switch and the STANDBY/ON ⏻/I button

- The ⏻ POWER switch is the mains supply switch, allowing the receiver to connect to the mains supply. To shut off the power completely, press the ⏻ POWER switch to set it in the ▉ OFF position.
- The STANDBY/ON ⏻/I button is a functional on/off (standby) switch, and does not disconnect the receiver from the mains supply. A small amount of power is consumed even in standby mode for the receiver to accept signals from the remote control.

Note:

The preset settings such as preset channel and sound adjustment may be erased in the following cases:

- *When you press ⏻ POWER to set it in the ▉ OFF position.*
- *When you unplug the power cord.*
- *When a power failure occurs.*

CAUTIONS:

- Do not touch the power cord with wet hands.
- Do not pull on the power cord to unplug the cord. When unplugging the cord, always grasp the plug so as not to damage the cord.

Putting Batteries in the Remote Control

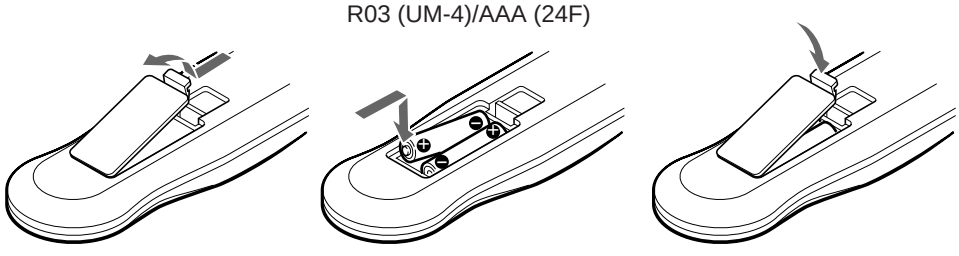
Before using the remote control, put two supplied batteries first. When using the remote control, aim the remote control directly at the remote sensor on the receiver.

1. **On the back of the remote control, remove the battery cover as illustrated.**

2. **Insert batteries. Make sure to observe the proper polarity: (+) to (+) and (–) to (–).**

3. **Replace the cover.**

R03 (UM-4)/AAA (24F)



If the range or effectiveness of the remote control decreases, replace the batteries. Use two R03 (UM-4)/AAA (24F) type dry-cell batteries.

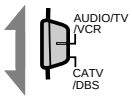
CAUTION:

Follow these precautions to avoid leaking or cracking cells:

- Place batteries in the remote control so they match the polarity indicated: (+) to (+) and (–) to (–).
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Basic Operations

The following operations are commonly used when you play any sound source.



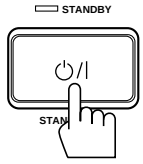
IMPORTANT:

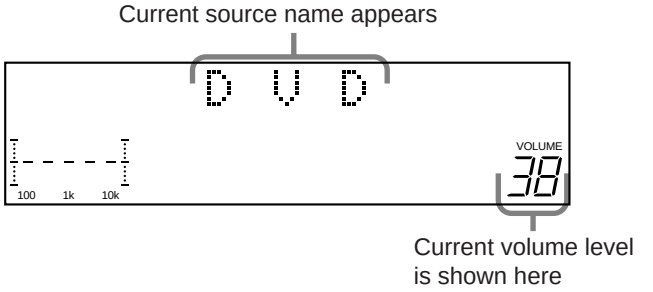
When using the Remote Control, check to see if its remote control mode selector is set to the correct position:
To operate an audio system, TV, and VCR, set it to "AUDIO/TV/VCR."
To operate a CATV converter and DBS tuner, set it to "CATV/DBS."

Turning the Power On and Off (Standby)

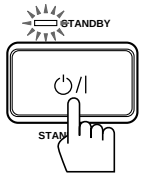
On the front panel:

To turn on the power, press STANDBY/ON ⏻/I.
The STANDBY lamp goes off. The name of the current source (or station frequency) appears on the display.





To turn off the power (into standby mode),
press STANDBY/ON ⏻/I again.
The STANDBY lamp lights up.



From the remote control:

To turn on the power, press AUDIO ⏻/I.
The STANDBY lamp goes off. The name of the current source (or station frequency) appears on the display.

To turn off the power (into standby mode), press AUDIO ⏻/I again.
The STANDBY lamp lights up.

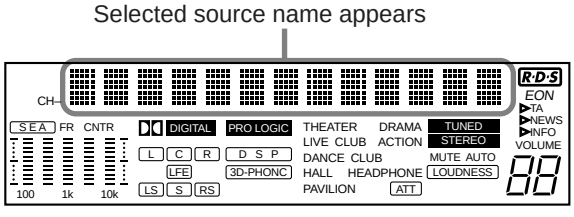
Selecting the Source to Play

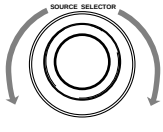
On the front panel:

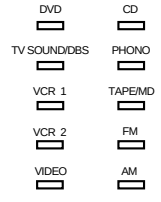
Turn SOURCE SELECTOR until the source name you want appears on the display.
As you turn the selector, the source changes as follows:

CD ↔ PHONO ↔ TAPE/MD ↔ FM ↔ AM ↔ DVD ↔ VIDEO ↔ VCR2 ↔ VCR1 ↔ TV SOUND/DBS

The selected source lamp also lights up.







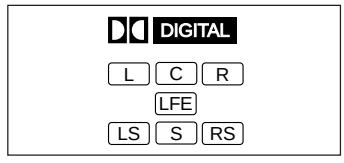
Source lamps on the front panel

Note:

Pressing the STANDBY/ON ⏻/I button again turns off the power (into standby mode) and lights the STANDBY lamp. A small amount of power is consumed in standby mode. To turn the power off completely, press the ⏻ POWER switch to set it in the ▮ OFF position on the front panel.

What are the following indicators?

When you select the source encoded with Dolby Digital and start playback, the following indicators light up on the display to show the signal being input to this receiver. (Only the indicators for the received signals light up.)



L: Left front channel
R: Right front channel
C: Center channel
LS: Left rear channel
RS: Right rear channel
S: Rear channel (monaural)
LFE: Subwoofer channel

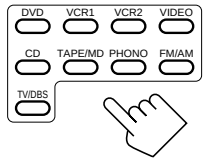
Note:

When connecting an MD recorder (to the TAPE/MD jacks), and a DBS tuner (to the TV SOUND/DBS jacks), change the source name appears on the display. For details, see page 18.

Basic Operations

From the remote control:

Press one of the source selecting buttons directly.



DVD	Selects the DVD player.
VCR1	Selects the video component connected to the VCR1 jacks.
VCR2	Selects the video component connected to the VCR2 jacks.
VIDEO	Selects the video component connected to the VIDEO jacks.
CD*	Selects the CD player.
TAPE/MD*	Selects the cassette deck or the MD recorder.
PHONO*	Selects the turntable.
FM/AM*	Selects an FM and AM (MW/LW) broadcast. Each time you press the button, the band alternates between FM and AM (MW/LW).
TV/DBS	• Selects TV sounds when the remote control selector is set to "AUDIO/TV/VCR." • Selects the DBS tuner when the remote control selector is set to "CATV/DBS."

Note:

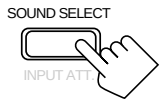
When you press one of the source selecting buttons marked above with an asterisk (*), the receiver automatically turns on.

Selecting different sources for picture and sound

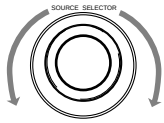
You can watch picture from a video component while listening to sound from another component.

On the front panel:

1. **Press SOUND SELECT briefly while viewing the picture from a video component such as the VCR or DVD player, etc.**
   "SOUND SELECT" appears on the display.



2. **Turn SOURCE SELECTOR to select the sound (except the TV sound), while the indication of the above step is still on the display.**



Notes:

- *Once you have selected a video source, pictures of the selected source is sent to the TV until you select another video source.*
- *When you select TV sound as the source, this function does not work.*

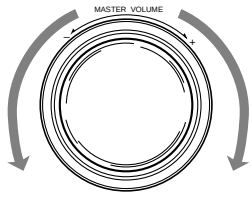
From the remote control:

Press one of the audio source selecting buttons (CD, TAPE/MD, PHONO, FM/AM), while viewing the picture from a video component such as the VCR or DVD player, etc.

Adjusting the Volume

On the front panel:

To increase the volume, turn MASTER VOLUME clockwise.
To decrease the volume, turn it counterclockwise.



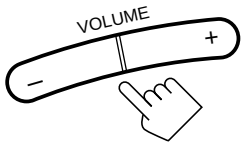
When you turn MASTER VOLUME **rapidly**, the volume level also changes **rapidly**.
When you turn MASTER VOLUME **slowly**, the volume level also changes **slowly**.

CAUTION:

Always set the volume to the minimum before starting any source. If the volume is set at its high level, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.

From the remote control:

To increase the volume, press VOLUME +.
To decrease the volume, press VOLUME –.



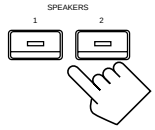
Note:

The volume level can be adjusted within the range of "0" (minimum) to "90" (maximum).

Selecting the Front Speakers

On the front panel *only*:

When you have connected two pairs of the front speakers, you can select which to use.



Press SPEAKERS 1 or SPEAKERS 2 to select the speaker to use.
Each time you press the button, the lamp on the respective button turns on and off. When the lamp on either button lights up, the respective speakers are activated.

> ***IMPORTANT:***
>
> You can activate two pairs of the front speakers at the same time only when no signals are sent to the center and rear speakers. Otherwise, activating one pair of the speakers deactivates the other.

Listening only with headphones

1. Connect a pair of headphones to the PHONES jack on the front panel.
2. Press SPEAKERS 1 and/or 2 so that no lamps on the buttons are turned on.

Note:

If you use any of the DSP modes other than the 3D-PHONIC modes and "HEADPHONE" with both front speakers activated, the speakers connected to the FRONT SPEAKERS ② terminals are deactivated.

CAUTION:

Be sure to turn down the volume before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.

Note:

You cannot shut off the sound through the subwoofer using the SPEAKERS 1 and 2 buttons.

Muting the Sound

From the remote control *only*:

Press MUTE to mute the sound through all speakers and headphones connected.
"MUTE" appears on the display and the volume turns off (the volume level indicator also goes off).

To restore the sound, press MUTE again so that "OFF" appears on the display. Turning MASTER VOLUME or pressing VOLUME +/– also restores the sound at the previous volume level.

Recording a Source

You can record any source playing through the receiver to the cassette deck or the MD recorder connected to the TAPE/MD jacks and the VCRs connected to the VCR1 and VCR2 jacks at the same time.
While recording, you can listen to the selected sound source at whatever sound level you like, without affecting the sound levels of the recording.

Note:

The output volume level and SEA modes cannot affect the recording.

IMPORTANT:

When recording the digital source, turn off the DSP mode.

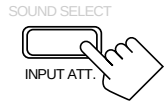
Basic Operations

Attenuating the Input Signal

When the input level of the playing source through the analog terminals is too high, the sounds will be distorted. If this happens, you need to attenuate the input signal level to prevent the sound distortion.

On the front panel *only*:

Press and hold SOUND SELECT/INPUT ATT. until "INPUT ATT ON" appears on the display.
The ATT indicator also lights up on the display.



Each time you press and hold the button, the input attenuator mode turns on ("INPUT ATT ON") and off ("INPUT NORMAL").
You can set input attenuator mode separately for each source.

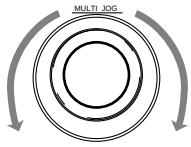
Adjusting the Subwoofer Output Level

You can adjust the subwoofer output level if you have selected "YES" for the "SUBWOOFER" (see page 19).
Once it has been adjusted, the receiver memorizes the adjustment.

On the front panel:

1. **Press BALANCE/SURROUND ADJUST repeatedly until "SUBWFR LEVEL" appears on the display.**
   The display changes to show the current setting.

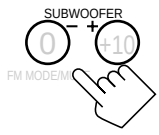
2. **Turn MULTI JOG to adjust the subwoofer output level (–10 dB to +10 dB), while the indication of the previous step is still on the display.**



From the remote control:

1. **Press SOUND CONTROL.**
   10 keys are activated for sound adjustments.

2. **Press SUBWOOFER +/– to adjust the subwoofer output level (–10 dB to +10 dB).**



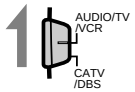
Notes:

- *This function is available only for the sources connected using the analog terminals.*
- *This function takes effect only when the DSP mode is in use.*

Basic Settings

English

Some of the following settings are required after connecting and positioning your speakers in your listening room, while others will make operations easier.



IMPORTANT:

When using the Remote Control, check to see if its remote control mode selector is set to the correct position:
To operate this receiver, set it to "AUDIO/TV/VCR" (except when selecting the DBS tuner as the source).

Changing the Source Name

When you have connected an MD recorder to the TAPE/MD jacks or the DBS tuner to the TV SOUND/DBS jacks on the rear panel. Change the source name shown on the display when you select the MD recorder or DBS tuner as the source.

On the front panel *only*:

1. ***When changing the source name from "TAPE" to "MD":***
   • Turn SOURCE SELECTOR until "TAPE" appears.
   When changing the source name from "TV SOUND" to "DBS":
   • Turn SOURCE SELECTOR until "TV SOUND" appears.

2. **Press and hold LOUDNESS/SOURCE NAME until "ASSGN. MD" or "ASSGN. DBS" appears on the display.**

To change the source names to "TAPE" or "TV SOUND," repeat the same procedure above (in step 1, select "MD" or "DBS" then press and hold SOURCE NAME).

Note:

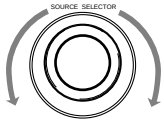
Without changing the source name, you can still use the connected components. However, there may be some inconvenience.
– "TAPE" or "TV SOUND" will appear on the display when you select the MD recorder or DBS tuner.
– You cannot use the digital input (see below) for the MD recorder and the DBS tuner.
– You cannot use the COMPU LINK remote control system (see page 55) to operate the MD recorder.

Selecting the Input Mode

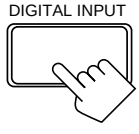
When you have connected some components such as CD player, MD recorder, DVD player and the DBS tuner using digital terminals (see page 12), you need to change the input mode for these components to the digital input.

On the front panel:

1. **Turn SOURCE SELECTOR until the source (CD, MD, DBS, or DVD) for which you want to change the input mode from analog input to digital input.**

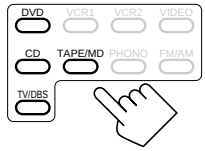


2. **Press DIGITAL INPUT to change the input mode.**
   Each time you press the button, the input mode alternates between the digital input and analog input.



From the remote control:

1. **Press the source selecting button (CD, TAPE/MD, TV/DBS, or DVD) for which you want to change the input mode from analog input to digital input.**



2. **Press ANALOG/DIGITAL to change the input mode.**
   Each time you press the button, the input mode alternates between the digital input and analog input.

Note:

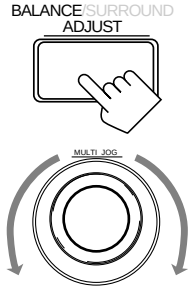
Once you have set the digital input for these components, it is always used every time you select these components as the source.

Basic Settings

Adjusting the Front Speaker Output Balance

If the sounds you hear from the front right and left speakers are unequal, you can adjust the speaker output balance.

On the front panel *only*:



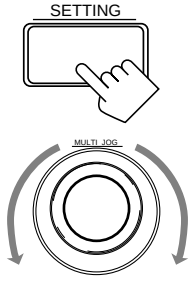
1. **Press BALANCE/SURROUND ADJUST repeatedly until "L/R BALANCE" appears on the display.**
   The display changes to show the current setting.

2. **Turn MULTI JOG to adjust the balance, while the indication of the previous step is still on the display.**
   - Turning it clockwise decreases the left channel output.
   - Turning it counterclockwise decreases the right channel output.

Setting the Subwoofer Information

Register whether or not you have connected a subwoofer.

On the front panel *only*:



1. **Press SETTING repeatedly until "SUBWOOFER" appears on the display.**
   The display changes to show the current setting.

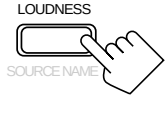
2. **Turn MULTI JOG to register whether you have connected a subwoofer or not, while the indication of the previous step is still on the display.**
   As you turn it, the subwoofer setting alternates between "YES" and "NO."

YES	Select this when you use a subwoofer.
NO	Select this when you do not use a subwoofer.

Listening at Low Volume (Loudness)

Human ears are not sensitive to bass at low volume. To compensate for this, the loudness function automatically boosts the bass level as you lower the volume.

On the front panel *only*:



Press LOUDNESS/SOURCE NAME briefly to select the loudness function.
Each time you press the button, the loudness function turns on ("LOUDNESS ON") and off ("LOUDNESS OFF").
- Select "LOUDNESS ON" to activate the loudness function.
  The LOUDNESS indicator lights up on the display.
- Select "LOUDNESS OFF" to cancel it.
  The indicator goes off.

Note:

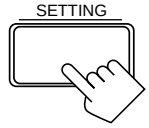
The loudness function affects the front speaker sounds only.

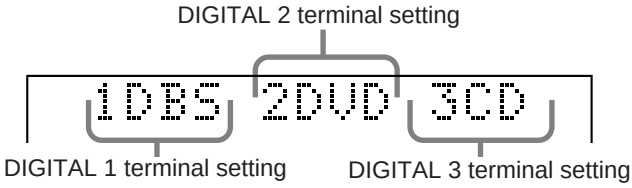
Digital Input (DIGITAL IN) Terminal Setting

When you use the digital input terminals, you have to register what components are connected to which terminals (DIGITAL IN 1/2/3).

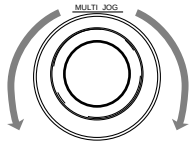
On the front panel *only*:

1. **Press SETTING repeatedly until "DIGITAL IN" appears on the display.**
   The display changes to show the current setting.





2. **Turn MULTI JOG to select the appropriate digital terminal setting, while the indication of the previous step is still on the display.**
   As you turn it, the display changes to show the following:
   ⇄ 1 DBS 2 DVD 3 CD ⇄ 1 MD 2 DVD 3 CD ⇄ 1 MD 2 DBS 3 CD
   ⇄ 1 MD 2 DBS 3 DVD ⇄ 1 CD 2 DVD 3 MD ⇄ 1 CD 2 DBS 3 MD
   ⇄ 1 CD 2 DBS 3 DVD ⇄ 1 DVD 2 CD 3 MD ⇄ 1 DVD 2 DBS 3 MD
   ⇄ 1 DVD 2 DBS 3 CD ⇄ 1DBS 2 CD 3 MD ⇄ DBS 2 DVD 3 MD
   ⇄ (back to the beginning)



Note:

When shipped from the factory, the DIGITAL IN terminals can be used as the digital input for the following components.

- *DIGITAL 1 (coaxial): For DBS tuner*
- *DIGITAL 2 (optical): For DVD player*
- *DIGITAL 3 (optical): For CD player*

Setting the Speakers for the DSP Modes

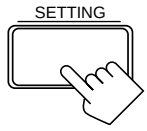
To obtain the best possible surround sound of the DSP modes, you have to register the information about the speakers arrangement after all connections are completed.

Front, Center, and Rear Speaker Setting

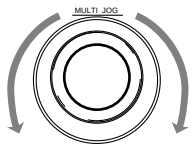
Register the sizes of the other speakers.

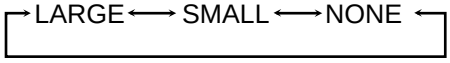
On the front panel *only*:

1. **Press SETTING repeatedly until "FRONT SPK" (Front Speaker), "CENTER SPK" (Center Speaker) or "REAR SPK" (Rear Speaker) appears on the display.**
   The display changes to show the current setting.



2. **Turn MULTI JOG to select the appropriate item about your front, center and rear speakers, while the indication of the previous step is still on the display.**
   As you turn it, the display changes to show the following:





LARGE	Select this when the speaker size is relatively large.
SMALL	Select this when the speaker size is relatively small.
NONE	Select this when you have not connect a speaker. (Not selectable for the front speakers)

Note:

When you change your speakers, you need to register the information about the speakers again.

Notes:

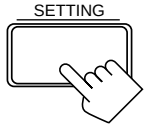
- *If the size of the cone speaker unit built in your speaker is greater than 12 cm (4 3/4 inches), select "LARGE," and if it is smaller than 12 cm (4 3/4 inches), select "SMALL."*
- *If you have selected "NO" for the subwoofer setting above, you can only select "LARGE" for the front speaker setting.*

Basic Settings

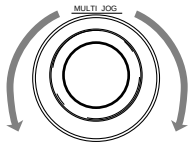
Center Delay Time Setting

Register the delay time of the sound from the center speaker, comparing that of the sound from the front speakers.
If the distance from your listening point to the center speaker is equal to that to the front speakers, select 0 msec. As the distance to the center speaker becomes shorter, increase the delay time.

On the front panel *only*:



1. **Press SETTING repeatedly until "CENTER DELAY" appears on the display.**
   The display changes to show the current setting.



2. **Turn MULTI JOG to select the delay time of the center speaker output, while the indication of the previous step is still on the display.**
   - Turn it clockwise to increase the delay time from 0 msec ("C. DELAY 0ms") to 5 msec ("C. DELAY 5ms").
   - Turn it counterclockwise to decrease the delay time from 5 msec ("C. DELAY 5ms") to 0 msec ("C. DELAY 0ms").

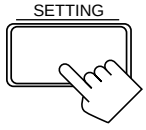
Note:

1 msec increase (or decrease) in delay time corresponds to 30 cm (11 13/16 inches) decrease (or increase) in distance.

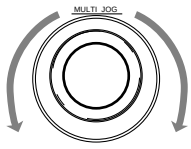
Rear Delay Time Setting

Register the delay time of the sound from the rear speakers, comparing that of the sound from the front speakers.
If the distance from your listening point to the rear speakers is equal to that to the front speakers, select 0 msec. As the distance to the rear speakers becomes shorter, increase the delay time.

On the front panel *only*:



1. **Press SETTING repeatedly until "REAR DELAY" appears on the display.**
   The display changes to show the current setting.



2. **Turn MULTI JOG to select the delay time of the rear speaker output, while the indication of the previous step is still on the display.**
   - Turn it clockwise to increase the delay time from 0 msec ("R. DELAY 0ms") to 15 msec ("R. DELAY 15ms").
   - Turn it counterclockwise to decrease the delay time from 15 msec ("R. DELAY 15ms") to 0 msec ("R. DELAY 0ms").

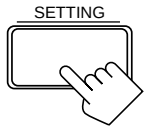
Notes:

- *1 msec increase (or decrease) in delay time corresponds to 30 cm (11 13/16 inches) decrease (or increase) in distance.*
- *It is recommended that the rear delay time for Dolby Digital be set to 5 msec.*

Crossover Frequency Setting

Small speaker cannot reproduce the bass sound very well. So, if you have used a small speaker any for the front, center, or rear channels, this receiver automatically reallocate the bass elements, originally assigned to the channel for which you have connected the small speaker, to another channel (for which you have connected the large speaker).
To use this function properly, you need to set this crossover frequency level according to the size of the small speaker connected.

On the front panel *only*:

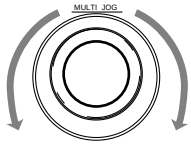


1. **Press SETTING repeatedly until "CROSSOVER FRQ" (Crossover Frequency) appears on the display.**
   The display changes to show the current setting.

Note:

This function takes effect only when playing back a source using the Dolby Digital. However, if you have selected "LARGE" for all speakers (see page 20), this function will not take effect.

2. **Turn MULTI JOG to select the crossover frequency level according to the size of the small speaker connected, while the indication of the previous step is still on the display.**
As you turn it, the display changes to show the following:



CROSS: 80Hz ⟷ CROSS:100Hz ⟷ CROSS:120Hz

CROSS: 80Hz	Select this when the cone speaker unit built in the speaker is about 12 cm (4 3/4 inches).
CROSS:100Hz	Select this when the cone speaker unit built in the speaker is about 10 cm (3 15/16 inches).
CROSS:120Hz	Select this when the cone speaker unit built in the speaker is about 8 cm (3 3/16 inches).

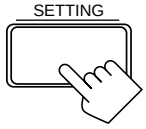
Low Frequency Effect Attenuator Setting

If the bass sound is distorted while playing back a source using Dolby Digital, follow the procedure below.

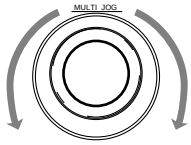
Note:
This function takes effect only when playing back a source using the Dolby Digital.

On the front panel *only*:

1. **Press SETTING repeatedly until "LFE ATT" (Low Frequency Effect Attenuator) appears on the display.**
The display changes to show the current setting.



2. **Turn MULTI JOG to select the low frequency effect attenuator level, while the indication of the previous step is still on the display.**
As you turn it, the display changes to show the following:



LFE ATT: 0dB ⟷ LFE ATT:10dB

LFE ATT: 0dB	Normally select this.
LFE ATT:10dB	Select this when the bass sound is distorted.

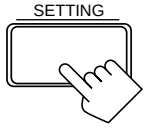
Dynamic Range Compression Setting

You can compress the dynamic range (difference between maximum sound and minimum sound) of the reproduced sound. This is useful when enjoying surround sound at night.

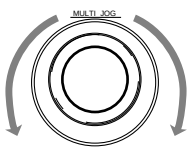
Note:
This function takes effect only when playing back a source using the Dolby Digital.

On the front panel *only*:

1. **Press SETTING repeatedly until "D. RANGE COMP." (Dynamic Range Compression) appears on the display.**
The display changes to show the current setting.



2. **Turn MULTI JOG to select the appropriate item about the compression level, while the indication of the previous step is still on the display.**
As you turn it, the display changes to show the following:



COMP.: OFF ⟷ COMP.: MID ⟷ COMP.: MAX

COMP.: OFF	Select this when you want to enjoy surround with its full dynamic range. (No effect applied.)
COMP.: MID	Select this when you want to reduce the dynamic range a little. (Factory setting.)
COMP.: MAX	Select this when you want to apply the compression effect fully. (Useful at night.)

English

One Touch Operation

This receiver can memorize the optimum sound settings for each playing source.

About the One Touch Operation

JVC's One Touch Operation function is used to assign and store different sound settings for each different playing source. By using this function, you do not have to change the settings every time you change the source. The stored settings for the newly selected source are automatically recalled.

The following can be stored for each source:

- Volume level (see page 15)
- Input attenuator mode (see page 17)
- Subwoofer output level (see page 17)
- Input mode (see page 18)
- Balance (see page 19)
- Loudness (see page 19)
- SEA modes (see page 32)
- DSP modes
  - 3D-PHONIC mode settings (see page 35)
  - DAP mode settings (see page 38)
  - Surround mode settings (see page 40 and 43)

Note:

If the source is FM or AM (MW/LW), you can assign a different setting for each band.

Using the One Touch Operation

On the front panel *only*:

To store the sound settings

1. **Press ONE TOUCH OPERATION.**
   The ONE TOUCH OPERATION lamp lights up, then the previously memorized settings are recalled.

2. **Adjust the sound using the functions listed above.**
   The newly adjusted settings are memorized.

To recall the sound settings

With the ONE TOUCH OPERATION lamp lit, the settings for the currently selected source is recalled when the source is selected.

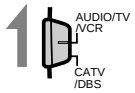
To cancel the One Touch Operation function

Press ONE TOUCH OPERATION so that the lamp goes off.
(Even though the One Touch Operation function is canceled, the recalled sound effects remain active.)

Receiving Radio Broadcasts

English

You can browse through all the stations or use the preset function to go immediately to a particular station.



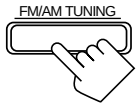
IMPORTANT:

When using the Remote Control, check to see if its remote control mode selector is set to the correct position:
To operate this receiver, set it to "AUDIO/TV/VCR" (except when selecting the DBS tuner as the source).

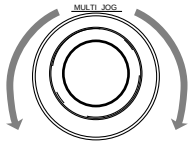
Tuning in Stations Manually

On the front panel *only*:

1. **Press FM/AM TUNING to select the band.**
   Each time you press the button, the band alternates between FM and AM (MW/LW).



2. **Turn MULTI JOG until you find the frequency you want.**
   - Turning it clockwise increases the frequency.
   - Turning it counterclockwise decreases the frequency.



Notes:

- *When you turn MULTI JOG quickly in step 2, the frequency keeps changing until a station is tuned in.*
- *When a station of sufficient signal strength is tuned in, the TUNED indicator lights up on the display.*
  When an FM stereo program is received, the STEREO indicator also lights up.

Using Preset Tuning

Once a station is assigned to a channel number, the station can be quickly tuned. You can preset up to 40 stations at random.

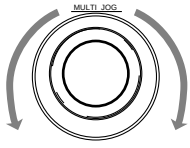
To store the preset stations

On the front panel *only*:

1. **Tune in the station you want to preset (see above).**
   If you want to store the FM reception mode for this station, select the FM reception mode you want. See page 25 for details.

2. **Press TUNER/SEA MEMORY.**
   "CH-" appears and the channel number position starts flashing on the display for about 5 seconds.

3. **Turn MULTI JOG to select a channel number while the channel number position is flashing.**



4. **Press TUNER/SEA MEMORY again while the selected channel number is flashing on the display.**
   The selected channel number stops flashing.
   The station is assigned to the selected channel number.

Note:

You can use the 10 keys on the remote control to select the preset number. When using the 10 keys, be sure that they are activated for tuner, not for the CD and others. (See page 63.)

Continued to the next page.

Receiving Radio Broadcasts

5. **Repeat steps 1 to 4 until you store all the stations you want.**

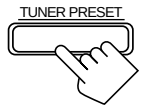
To erase a stored preset station

Storing a new station on a used number erases the previously stored one.

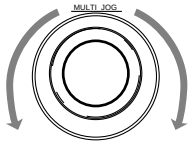
To tune in a preset station

On the front panel:

1. **Press TUNER PRESET.**



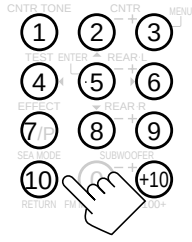
2. **Turn MULTI JOG to select a preset channel.**



From the remote control:

1. **Press FM/AM.**
   Each time you press the button, the band alternates between FM and AM (MW/LW).

2. **Press 10 keys to select a preset channel number.**
   - For channel number 5, press 5.
   - For channel number 15, press +10 then 5.
   - For channel number 20, press +10 then 10.
   - For channel number 30, press +10, +10, then 10.



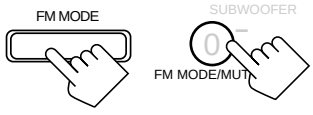
Note:

When you use the 10 keys on the remote control, be sure that they are activated for tuner, not for the CD and others. (See page 63.)

Selecting the FM Reception Mode

When an FM stereo broadcast is hard to receive or noisy, set the FM reception mode to "MONO." (When shipped from the factory, this mode has been set to "AUTO.")
You can change the FM reception mode while receiving an FM broadcast.

Press FM MODE on the front panel or FM MODE/ MUTE on the remote control.
Each time you press the button, the FM reception mode alternates between "AUTO" and "MONO."



AUTO:	When a program is broadcasted in stereo, you will hear stereo sound; when in monaural, you will hear monaural sounds. This mode is also useful to suppress static noise between stations. The MUTE AUTO indicator lights up on the display.
MONO:	Reception will be improved although you will lose the stereo effect. In this mode, you will hear noise while tuning into the stations. The MUTE AUTO indicator goes off on the display.

Notes:

- *You can store the FM reception mode for each preset station.*
- *When using the FM MODE/ MUTE button, be sure that the 10 keys are activated for tuner, not for the CD and others. (See page 63.)*

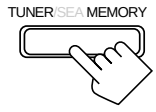
Assigning Names to Preset Stations

You can assign a name of up to four characters to each preset station. When a preset station is tuned in, its assigned name will appear on the display.

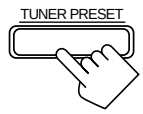
On the front panel *only*:

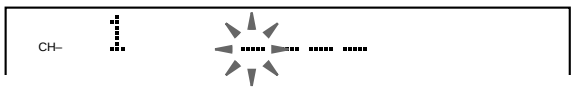
1. **Tune in a preset station.**
   See page 25 for details.

2. **Press TUNER/SEA MEMORY.**
   The preset channel number starts flashing for about 5 seconds.

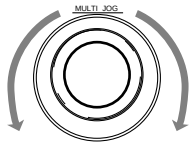


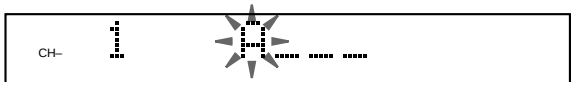
3. **Press TUNER PRESET, while the preset channel number is flashing.**
   The first character position starts flashing.



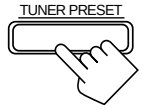


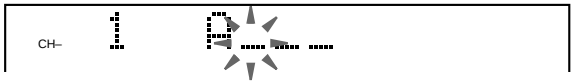
4. **Turn MULTI JOG to select the first character, while the first character position is flashing.**
   You can use characters listed below.





5. **Press TUNER PRESET, while a character you want is flashing.**
   The next (or previous) character position starts flashing.





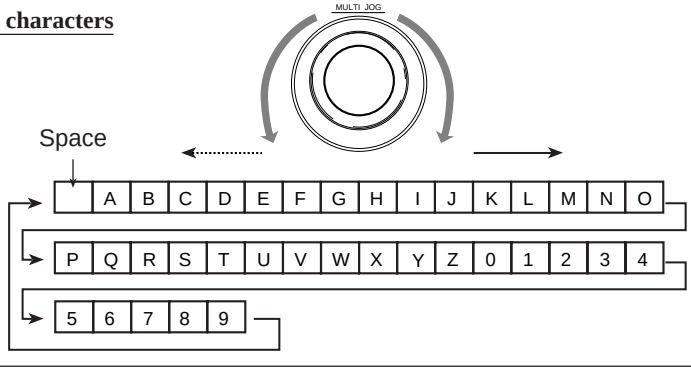
6. **Repeat steps 4 and 5 to enter up to four characters.**

7. **Press TUNER/SEA MEMORY while the last selected character is flashing after you have assigned a name.**

To erase the input characters

Insert spaces using the same procedure described above.

Available characters



Note:

If you turn MULTI JOG while the preset channel number is flashing, you can change the preset channel number.

Note on step 3 to 7:

You cannot select any entry after the indication on the display stops flashing. In this case, repeat the procedure from step 2 again.

Receiving Radio Broadcasts

Using the RDS (Radio Data System) to Receive FM Stations

RDS allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, the RDS indicator lights up on the display.

With the receiver, you can receive the following types of RDS signals.

PS (Program Service):	shows commonly known station names
PTY (Program Type):	shows types of broadcast programs
RT (Radio Text):	shows text messages the station sends
EON (Enhanced Other Network):	see page 31.

R·D·S EON

Note:

RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.

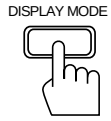
What Information Can RDS Signals Provide?

You can see the RDS signals the station sends on the display.

To show the RDS signals

On the front panel:

Press DISPLAY MODE while listening to an FM station.
Each time you press the button, the display changes to show you the following information:



PS → PTY → RT → Frequency

PS (Program Service):
While searching, “PS” appears and then the station names will be displayed. “NO PS” appears if no signal is sent.

PTY (Program Type):
While searching, “PTY” appears and then the type of the broadcast program will be displayed. “NO PTY” appears if no signal is sent.

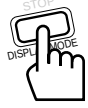
RT (Radio Text):
While searching, “RT” appears and then text messages the station sends will be displayed. “NO RT” appears if no signal is sent.

Station Frequency:
Station frequency (non-RDS service)

Notes:

- *If searching finishes at once, “PS”, “PTY”, and “RT” will not appear on the display.*
- *Even if you press DISPLAY MODE while listening to an AM (MW/LW) station, the display only shows station frequency.*
- *RDS is not available for AM (MW/LW) broadcasts.*

When pressing DISPLAY MODE on the remote control:
Make sure that you have selected FM station using the remote control.
If not, the DISPLAY MODE button does not work for tuner operation. (Pressing FM/AM activates the remote control for tuner operation.)



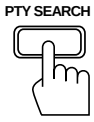
Searching for a Program by PTY Codes

One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels by specifying the PTY codes.

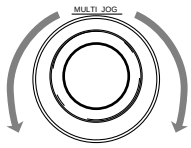
To search for a program using the PTY codes

On the front panel:

1. **Press PTY SEARCH while listening to an FM station.**
   "PTY SELECT" flashes on the display.



2. **Turn MULTI JOG until the PTY code you want appears on the display while "PTY SELECT" is flashing.**
   As you turn it, the display gives you the PTY codes described on page 29.



3. **Press PTY SEARCH again while the PTY code selected in the previous step is still on the display.**
   While searching, "SEARCH" and the selected PTY code alternate on the display.
   The receiver searches 40 preset channels, stops when it finds the one you have selected, and tunes in that station.

To continue searching after the first stop

Press PTY SEARCH again while the indications on the display are flashing.
If no program is found, "NOTFOUND" appears on the display.

To stop searching any time during the process

Press PTY SEARCH while searching.

Note:

FM stations must be preset to use the PTY codes.

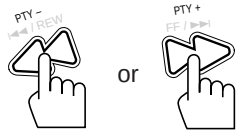
Receiving Radio Broadcasts

From the remote control:

Before starting the procedure below, make sure you have selected FM station only using the remote control. If not, the following RDS operating buttons do not work for tuner operation. (Pressing FM/AM activates the remote control for tuner operation.)

1. **Press PTY SEARCH while listening to an FM station.**
   "PTY SELECT" flashes on the display.

2. **Press PTY +/– until the PTY code you want appears on the display while "PTY SELECT" is flashing.**
   The display gives you the PTY codes described to the right.



3. **Press PTY SEARCH again while the PTY code selected in previous step is still on the display.**
   While searching, "SEARCH" and the selected PTY code alternate on the display.
   The receiver searches 40 preset channels, stops when it finds the one you have selected, and tunes in that station.

To continue searching after the first stop

Press PTY SEARCH again while the indications on the display are flashing.
If no program is found, "NOTFOUND" appears on the display.

To stop searching any time during the process

Press PTY SEARCH while searching.

When an emergency broadcast (ALARM signal) is sent from an FM station:
The receiver automatically tunes in the station except in the following cases:

- When you are listening to non-RDS stations (all AM — MW/LW and some FM stations).
- When the receiver is in standby mode.

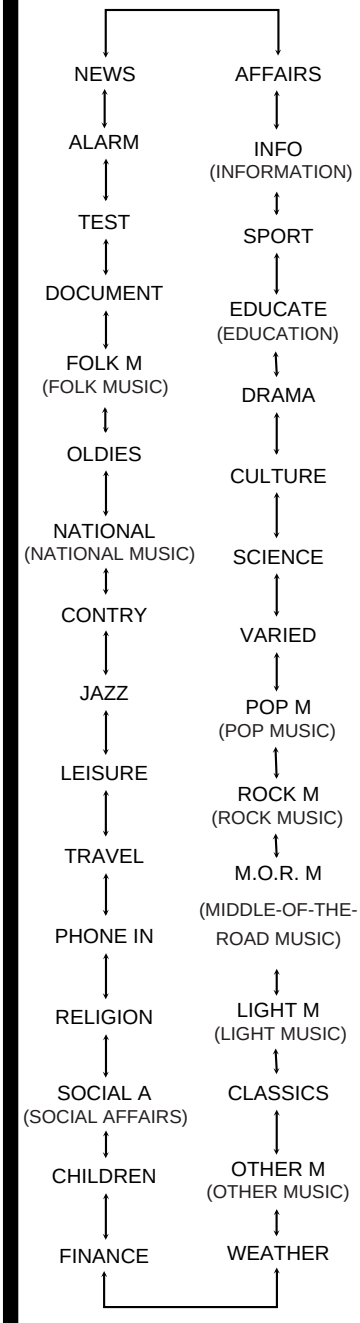
While receiving an emergency broadcast, "ALARM" appears on the display.

The TEST signal is used for equipment test — whether it can receive the ALARM signal correctly.
The TEST signal makes the receiver work in the same way as the ALARM signal does.
If an TEST signal is received, the receiver automatically switches to the station broadcasting the TEST signal.
While receiving an test signal, "TEST" appears on the display.

Note:

When selecting the PTY codes by pressing PTY +, NEWS always appears first.
When selecting the PTY codes by pressing PTY –, ALARM always appears first.

Descriptions of the PTY codes:



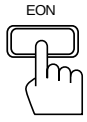
Switching to a Broadcast Program of Your Choice Temporarily

Another convenient RDS service is called “EON (Enhanced Other Network).”
The EON indicator lights up while receiving a station with the EON code.
This allows the receiver to switch temporarily to a broadcast program of your choice (NEWS, TA, and/or INFO) from a different station except in the following cases:

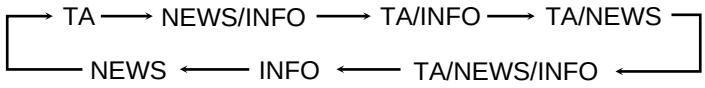
- When you are listening to a non-RDS stations (all AM — MW/LW and some FM stations).
- When the last received FM station is a non-RDS station.
- When the receiver is in standby mode.

On the front panel *only:*

1. **Press EON so that the last selected program type appears on the display.**
   The receiver enters EON standby mode*.



2. **Press TA/NEWS/INFO until the program type you want appears on the display.**
   Each time you press the button, the display changes to show the following.



TA: Traffic Announcement in your area.
NEWS: News.
INFO: Program the purpose of which is to impart advice in the widest sense.

CASE 1 **If there is no station broadcasting the program you have selected**

The receiver continues playing the current source (all sources except AM — MW/LW).

⇩

When a station starts broadcasting the program you have selected, the receiver automatically switches to the station. The indicator of received PTY code starts flashing.

⇩

When the program is over, the receiver goes back to the previously selected source, but still remains in EON standby mode. The indicator of received PTY code stops flashing and remains lit.

Continued to the next page.

Note:

FM stations must be preset to use the EON function.

Note:

** When the receiver is in EON standby mode, the receiver is ready to receive the EON data (TA/NEWS/INFO) you select.*

Receiving Radio Broadcasts

CASE 2 **If there is a station broadcasting the program you have selected**

The receiver changes the source (all sources except AM — MW/LW), and tunes in the station. The indicator of received PTY code starts flashing.

⇩

When the program is over, the receiver goes back to the previously selected source, but still remains in EON standby mode. The indicator of received PTY code stops flashing and remains lit.

CASE 3 **If the FM station you are listening is broadcasting the program you have selected**

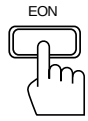
The receiver continues to receive the station but the indicator of received PTY code starts flashing.

⇩

When the program is over, the indicator of received PTY code stops flashing and remains lit, but the receiver remains in EON standby mode.

To stop listening to the program selected by EON

Press EON so that the program type (TA/NEWS/INFO) goes off from the display. The receiver enters EON off mode and goes back to the previously selected source.
Each time you press EON, the EON mode alternates between standby mode and off mode.



Notes:

- *EON data sent from some stations may not be compatible with this receiver.*
- *In EON standby mode, if you change the source to AM (MW/LW) or if you carry out synchronized recording (see page 55), EON standby mode is canceled temporarily. The receiver goes back to EON standby mode again when you have finished that operation.*
- *While listening to a program tuned in by the EON function, you can only use STANDBY/ON ⏻/I , EON, MASTER VOLUME (on the front panel) and AUDIO ⏻/I (on the remote control).*
- *While listening to a program tuned in by the EON function, you cannot perform the on-screen operations (pages 47 and 57).*
- *When the receiver is turned off (into standby mode), the EON function is also turned off.*

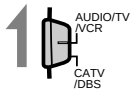
CAUTION:

When the source alternates intermittently between the station tuned in by the EON function and the currently selected source, press EON to cancel the EON function. This is not a malfunction of the receiver.

Using the SEA Modes

The SEA (Sound Effect Amplifier) modes give you control of the way your music sounds.

English



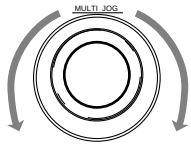
IMPORTANT:

When using the Remote Control, check to see if its remote control mode selector is set to the correct position:
To operate this receiver, set it to "AUDIO/TV/VCR" (except when selecting the DBS tuner as the source).

Selecting Your Favorite SEA Mode

On the front panel:

1. **Press SEA MODE.**
   The display changes to show the current setting.



2. **Turn MULTI JOG until the mode you want appears on the display, while the indication of the previous step is still on the display.**
   As you turn it, the SEA mode changes as follows:

SEA ROCK ↔ SEA MUSICAL ↔ SEA MOVIE ↔ SEA COUNTRY
SEA OFF ⟷ SEA USERMODE ⟷ SEA JAZZ

SEA ROCK:	Gives a heavy sound. Both high and low frequencies are boosted.
SEA MUSICAL:	Enhance the mid-frequency range, which the human voice is mostly made up of.
SEA MOVIE:	Adds breadth to sounds so you feel like you are in a movie theater.
SEA COUNTRY:	Enhances the high-frequency range so that instruments such the violin and banjo are emphasized.
SEA JAZZ:	Gives a feeling of a live atmosphere. Good for acoustic music.
SEA USERMODE:	Your original SEA adjustment (see page 33).
SEA OFF:	No SEA mode is applied (see below).

To cancel the SEA mode

Turn MULTI JOG until "SEA OFF" appears in step 2 above.
The SEA indicator goes off from the display.

From the remote control:

1. **Press SOUND CONTROL.**
   10 keys are activated for sound adjustments.

2. **Press SEA MODE repeatedly until the SEA mode you want appears on the display.**
   Each time you press the button, the SEA mode changes as follows:

SEA ROCK → SEA MUSICAL → SEA MOVIE → SEA COUNTRY
SEA OFF ⟵ SEA USERMODE ⟵ SEA JAZZ

To cancel the SEA mode

Press SEA MODE until "SEA OFF" appears in step 2 above.
The SEA indicator goes off from the display.

Notes:

- *The SEA modes cannot be used for recording.*
- *When the SEA mode is turned on, the SEA indicator lights up on the display.*
- *When the SEA mode is used with the DAP mode (see page 38), sounds may be distorted. If this happens, turn off the DAP mode or decrease the effect level of the DAP mode.*

Note:

When the SEA mode is turned on, the SEA indicator lights up on the display.

Using the SEA Modes

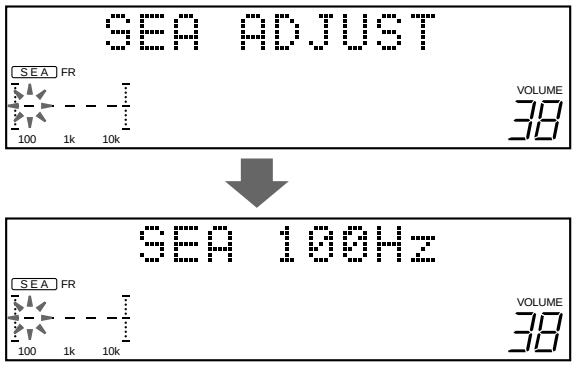
Creating Your Own SEA Mode

You can adjust and store your own SEA adjustment into memory (SEA USERMODE).

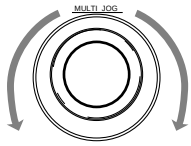
On the front panel *only*:

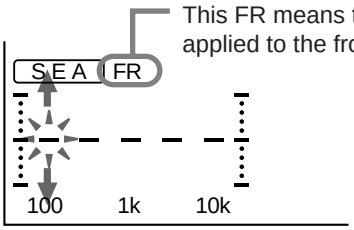
If you do not want to store your adjustment, but rather want to adjust the SEA temporarily, skip step 4 below.

1. **Press SEA ADJUST repeatedly until the frequency range (100Hz, 1kHz or 10kHz) you want appears on the display.**



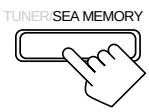
2. **Turn MULTI JOG to adjust the SEA level of the selected frequency range, while the indication of the previous step is still on the display.**
   - Turning it clockwise increases the level.
   - Turning it counterclockwise decreases the level.





3. **Repeat step 1 and 2 to adjust other frequency ranges if necessary.**

4. **Press TUNER/SEA MEMORY, while the indication of the previous step is still on the display.**
   Your adjustment is stored into the SEA USERMODE.



To recall your own SEA adjustment

See page 32.

To erase a stored adjustment

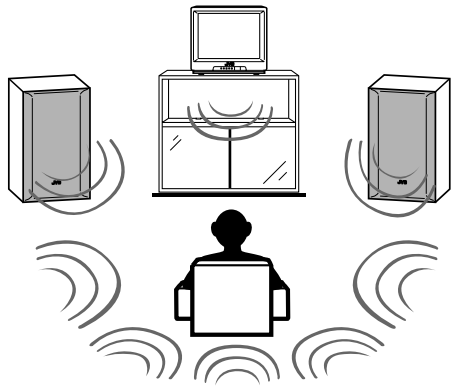
Storing a new adjustment into SEA USERMODE erases the previously stored one.

Using the DSP Modes

The built-in Surround Processor provides three types of the DSP (Digital Signal Processor) mode — 3D-PHONIC mode, DAP (Digital Acoustic Processor) mode and Surround mode (Dolby Digital, Dolby Pro Logic and JVC's Theater Surround.)

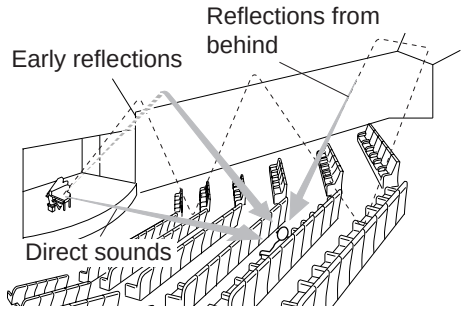
On the 3D-PHONIC mode

The 3D-PHONIC mode gives you such a nearly surround effect as it is reproduced through the Dolby Surround decoder, which is widely used to reproduce sounds with a feeling of movement like those experienced in movie theaters. The 3D-PHONIC mode is the result of research on sound localization technology carried out at JVC for many years and makes it possible to reproduce the surround sound **with only two front speakers**.



On the DAP mode

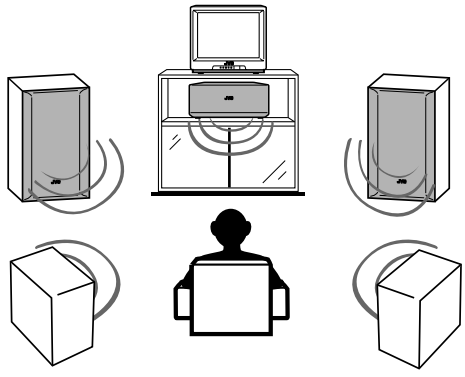
The sound heard in a concert hall or club consists of direct sound and indirect sound — early reflections and reflections from behind. Direct sounds reach the listener directly without any reflection. On the other hand, indirect sounds are delayed by the distances of the ceiling and walls. These direct sounds and indirect sounds are the most important elements of the acoustic surround effects. The DAP mode can create these important elements, and gives you a real "being there" feeling.



On Surround mode

With this receiver, you can use two types of the surround mode.

Dolby Surround (Dolby Digital and Dolby Pro Logic)
Used to watch the soundtracks of software encoded with Dolby Digital (bearing the mark DOLBY DIGITAL) or with Dolby Surround (bearing the mark DOLBY SURROUND).
Dolby Digital and Dolby Pro Logic can be selected automatically according to software played back.



JVC's Theater Surround
In order to reproduce a more realistic sound field in your listening room while playing soundtracks of software encoded with Dolby Digital (bearing the mark DOLBY DIGITAL) or with Dolby Surround (bearing the mark DOLBY SURROUND), Theater Surround has been designed to create a real "being there" feeling.

Notes:

- *The DSP modes has no effect on monaural sources.*
- *You can not use the two types of the DSP modes at the same time.*

IMPORTANT:

When recording the digital source, turn off the DSP mode.

Note:

To enjoy the software encoded with Dolby Digital, you must connect the source component using the digital terminal on the rear of this receiver.

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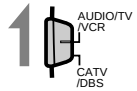
Using the DSP Modes



IMPORTANT:

When using the Remote Control, check to see if its remote control mode selector is set to the correct position:
To operate this receiver, set it to "AUDIO/TV/VCR" (except when selecting the DBS tuner as the source).

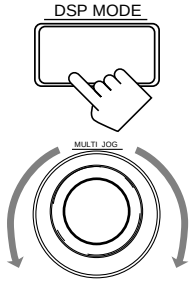
Using the 3D-PHONIC Modes

When using the 3D-PHONIC modes, you need only two front speakers to reproduce the soundtracks of software encoded with Dolby Digital (bearing the mark DOLBY DIGITAL) or with Dolby Surround (bearing the mark DOLBY SURROUND).

On the front panel:

1. **Select and play the source encoded with Dolby Digital (bearing the mark DOLBY DIGITAL) or with Dolby Surround (bearing the mark DOLBY SURROUND).**
   - When you play back the source encoded with Dolby Digital and select the digital input for that source, the DIGITAL indicator lights up on the display.

2. **Press DSP MODE.**
   The current DSP mode appears on the display.



3. **Turn MULTI JOG until the mode — 3D ACTION (or 3D DIGITAL), 3D DRAMA, or 3D THEATER — you want appears on the display, while the indication of the previous step is still on the display.**
   As you turn it, the DSP modes change as follows (the 3D-PHONIC and DSP indicators also light up on the display):

When the digital input is selected to play the source encoded with Dolby Digital:

DIG-THEATER ⟷ HEADPHONE
DSP OFF ⟷ 3D DIGITAL

For other sources:

THEATER ⟷ LIVE CLUB ⟷ DANCE CLUB ⟷ HALL
DSP OFF — PAVILION
3D THEATER ⟷ 3D DRAMA ⟷ 3D ACTION ⟷ HEADPHONE

3D ACTION:	Best for action and war movies — where the action is fast and explosive.
3D DRAMA:	Best for dramas and romantic movies — where the action is slow and soft.
3D THEATER:	Reproduces the sound field of a theater.
3D DIGITAL:	Reproduces multi-sound source encoded with Dolby Digital.
DSP OFF:	No DSP mode is applied.

For the other modes, see pages 38 and 43.

If you need to make any adjustment, go to the following steps.

Notes:

- *To enjoy the software encoded with Dolby Digital, you must connect the source component using the digital terminal on the rear of this receiver.*
- *The 3D-PHONIC mode is not used with the other DSP modes such as the DAP mode and the Surround mode. When the 3D-PHONIC mode is turned on, the other DSP mode, if used, will be turned off.*

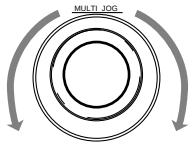
Notes on the indications:

- *The indicator of the selected DSP mode also lights up on the display while selecting.*
- *The PRO LOGIC indicator lights up when the Dolby Pro Logic decoder built in this receiver is activated.*
- *The Dolby Pro Logic decoder is used not only for the analog sources but also for the sources encoded with Dolby Digital in the following cases:*
  - *When only front channel signals are encoded.*
  - *When front channel and monaural rear channel signals are encoded.*

  While the Dolby Pro Logic is activated for this type of Dolby Digital source, the DIGITAL indicator goes off.

4. **Press BALANCE/SURROUND ADJUST repeatedly until "DSP EFFECT" appears on the display.**
   The display changes to show the current setting.

5. **Turn MULTI JOG to select the effect level, while the indication of the previous step is still on the display.**
   As you turn it, the effect level changes as follows:



DSP EFFECT 1 ↔ DSP EFFECT 2 ↔ DSP EFFECT 3
DSP EFFECT 5 ↔ DSP EFFECT 4

   As the number increases, the selected 3D-PHONIC mode becomes stronger.

To cancel the 3D-PHONIC mode

Turn MULTI JOG until "DSP OFF" appears in step 3.
The 3D-PHONIC and DSP indicators go off from the display.

Note:

Once you have adjusted the 3D-PHONIC modes, it is memorized for each 3D-PHONIC mode.

Using the DSP Modes

From the remote control:

1. **Select and play the source encoded with Dolby Digital (bearing the mark DOLBY DIGITAL) or with Dolby Surround (bearing the mark DOLBY SURROUND).**
   - When you play back the source encoded with Dolby Digital and select the digital input for that source, the DIGITAL indicator lights up on the display.

2. **Press SURROUND MODE repeatedly until the mode — 3D ACTION (or 3D DIGITAL), 3D DRAMA, or 3D THEATER — you want appears on the display.**
   Each time you press the button, the DSP modes change as follows (the 3D-PHONIC and DSP indicators also light up on the display):

When the digital input is selected to play the source encoded with Dolby Digital:

DOLBY DIGITAL → DIG-THEATER → HEADPHONE → 3D DIGITAL → OFF → DOLBY DIGITAL

For other sources:

PRO LOGIC → THEATER → LIVE CLUB → DANCE CLUB → HALL → PAVILION → HEADPHONE → 3D ACTION → 3D DRAMA → 3D THEATER → OFF → PRO LOGIC

3. **Press SOUND CONTROL.**
   10 keys are activated for sound adjustments.

4. **Press EFFECT to select the effect level.**
   Each time you press the button, the effect level changes as follows:

DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 → DSP EFFECT 4 → DSP EFFECT 5 → DSP EFFECT 1

As the number increases, the selected 3D-PHONIC mode becomes stronger.

To cancel the 3D-PHONIC mode

Press SURROUND MODE repeatedly until "OFF" appears.
The 3D-PHONIC and DSP indicators go off from the display.

Note:

The 3D-PHONIC mode is not used with the other DSP modes such as the DAP mode and the Surround mode. When the 3D-PHONIC mode is turned on, the other DSP mode, if used, will be turned off.

Notes on the indications:

- *The indicator of the selected DSP mode also lights up on the display while selecting.*
- *The PRO LOGIC indicator lights up when the Dolby Pro Logic decoder built in this receiver is activated.*
- *The Dolby Pro Logic decoder is used not only for the analog sources but also for the sources encoded with Dolby Digital in the following cases:*
  - *When only front channel signals are encoded.*
  - *When front channel and monaural rear channel signals are encoded.*

  While the Dolby Pro Logic is activated for this type of Dolby Digital source, the DIGITAL indicator goes off.

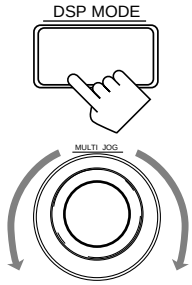
Note:

Once you have adjusted the 3D-PHONIC modes, it is memorized for each 3D-PHONIC mode.

Using the DAP Modes

You can use five DAP modes — “Live Club, Dance Club, Hall, Pavilion, and Headphones” for any source.
Among the DAP modes, “Headphones” is very special. It can create the same stereo sound as you listen through the speakers off air while listening to a source using headphones. So, you can feel as if you were not using the headphones and listening to music in a room.
If the digital input is selected to play the source encoded with Dolby Digital, you can only select “Headphones.”

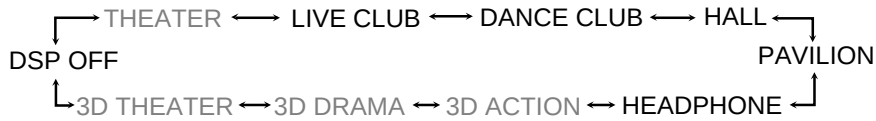
On the front panel:



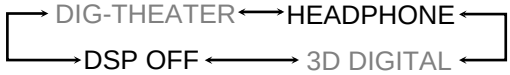
1. **Press DSP MODE.**
   The current DSP mode appears on the display.

2. **Turn MULTI JOG until the mode (LIVE CLUB, DANCE CLUB, HALL, PAVILION, or HEADPHONE) you want appears on the display, while the indication of the previous step is still on the display.**
   The DSP indicator also lights up on the display.

As you turn it, the DSP modes change as follows:



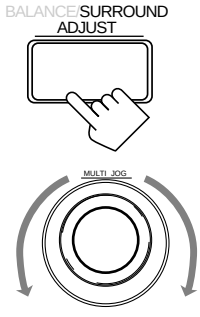
When the digital input is selected to play the source encoded with Dolby Digital:



LIVE CLUB:	Gives the feeling of a live music club with a low ceiling.
DANCE CLUB:	Gives a throbbing bass beat.
HALL:	Gives clear vocal and the feeling of a concert hall.
PAVILION:	Gives the spacious feeling of a pavilion with a high ceiling.
HEADPHONE:	Gives a spacious stereo effect when listening with headphones.
DSP OFF:	No DSP mode is applied.

For the other modes, see pages 35 and 43.

If you need to make any adjustment, go to the following steps.



3. **Adjust the speaker output levels as follows.**
   1) **Press BALANCE/SURROUND ADJUST repeatedly until one of the indications appears on the display.**
      “REAR L LEVEL”: To adjust the left speaker level.
      “REAR R LEVEL”: To adjust the right speaker level.
   2) **Turn MULTI JOG to adjust the selected speaker output level (from –10 dB to +10 dB), while the indication of the previous step is still on the display.**
   3) **Repeat 1) and 2) to adjust the other speaker output levels.**

Notes:

- *The DAP mode is not used with the other DSP modes such as the 3D-PHONIC mode and the Surround mode. When the DAP mode is turned on, the other DSP mode, if used, will be turned off.*
- *When the DAP mode is used with the SEA mode (see page 32), sounds may be distorted. If this happens, turn off the SEA mode.*

Note:

The indicator of the selected DSP mode also lights up on the display while selecting.

Note:

When you select “HEADPHONE,” you cannot go to the following steps. No adjustments can be made for “HEADPHONE.”

Note:

You cannot adjust the rear speaker levels when “REAR SPK” is set to “NONE” (see page 20).

Continued to the next page.

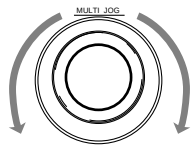
Using the DSP Modes

4. Adjust the effect level.

1) Press BALANCE/SURROUND ADJUST repeatedly until "DSP EFFECT" appears on the display.

2) Turn MULTI JOG to select the effect level, while the indication of the previous step is still on the display.

As you turn it, the effect level changes as follows:



DSP EFFECT 1 ⟷ DSP EFFECT 2 ⟷ DSP EFFECT 3
DSP EFFECT 5 ⟷ DSP EFFECT 4

As the number increases, the selected DAP mode becomes stronger.

Note:

Once you have adjusted the DAP modes, the adjustment is memorized for each DAP mode.

To cancel the DAP mode

Turn MULTI JOG until "DSP OFF" appears in step 2.
The DSP indicator goes off from the display.

From the remote control:

1. Press SURROUND MODE repeatedly until the mode you want appears on the display.

The DSP indicator also lights up on the display.

Each time you press the button, the DSP modes change as follows (the indicator of the selected DSP mode also lights up on the display):

PRO LOGIC ⟶ THEATER ⟶ LIVE CLUB ⟶ DANCE CLUB ⟶ HALL ⟶ PAVILION ⟶ HEADPHONE ⟵ 3D ACTION ⟵ 3D DRAMA ⟵ 3D THEATER ⟵ OFF ⟵ PRO LOGIC

When the digital input is selected to play the source encoded with Dolby Digital:

DOLBY DIGITAL ⟶ DIG-THEATER ⟶ HEADPHONE ⟵ 3D DIGITAL ⟵ OFF ⟵ DOLBY DIGITAL

Note:

The DAP mode is not used with the other DSP modes such as the 3D-PHONIC mode and the Surround mode. When the DAP mode is turned on, the other DSP mode, if used, will be turned off.

Note:

When you select "HEADPHONE," you cannot go to the following steps. No adjustments can be made for "HEADPHONE."

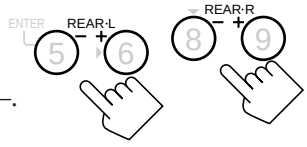
If you need to make any adjustment, go to the following steps.

2. Press SOUND CONTROL.

10 keys are activated for sound adjustments.

3. Adjust the speaker output levels as follows:

- To adjust the left rear speaker level, press REAR•L +/–.
- To adjust the right rear speaker level, press REAR•R +/–.



Note:

You cannot adjust the rear speaker levels when "REAR SPK" is set to "NONE" (see page 20).

4. Press EFFECT to select the effect level.

Each time you press the button, the effect level changes as follows:

DSP EFFECT 1 ⟶ DSP EFFECT 2 ⟶ DSP EFFECT 3
DSP EFFECT 5 ⟵ DSP EFFECT 4

As the number increases, the selected DAP mode becomes stronger.

Note:

Once you have adjusted the DAP modes, the adjustment is memorized for each DAP mode.

To cancel the DAP mode

Press SURROUND MODE repeatedly until "OFF" appears.
The DSP indicator goes off from the display.

Using the Dolby Digital and Dolby Pro Logic Modes

Once you have adjusted the Dolby Digital and Dolby Pro Logic modes, this receiver memorizes adjustment for each mode.
To activate the Dolby Digital and Dolby Pro Logic modes, follow the procedure below.

From the remote control:

1. **Select and play the source encoded with Dolby Digital (bearing the mark DOLBY DIGITAL) or with Dolby Surround (bearing the mark DOLBY SURROUND).**
   - When you play back the source encoded with Dolby Digital and select the digital input for that source, the DIGITAL indicator lights up on the display.

2. **Press SURROUND MODE repeatedly until "PRO LOGIC" or "DOLBY DIGITAL" appears on the display.**
   Dolby Digital or Dolby Pro Logic is automatically selected according to the source being played back.

When Dolby Pro Logic is selected, the lamp on the DOLBY SURROUND button (on the front panel) lights red.

When Dolby Digital is selected, the lamp on the DOLBY SURROUND button (on the front panel) lights green.

Each time you press the button, the DSP modes change as follows:

When the digital input is selected to play the source encoded with Dolby Digital:

DOLBY DIGITAL → DIG-THEATER → HEADPHONE → 3D DIGITAL → OFF → DOLBY DIGITAL

For other sources:

PRO LOGIC → THEATER → LIVE CLUB → DANCE CLUB → HALL → PAVILION → HEADPHONE → 3D ACTION → 3D DRAMA → 3D THEATER → OFF → PRO LOGIC

If you need to make any adjustment, go to the following steps.

3. **Press SOUND CONTROL.**
   10 keys are activated for sound adjustments.

Continued to the next page.

Notes:

- *To enjoy the software encoded with Dolby Digital, you must connect the source component using the digital terminal on the rear of this receiver.*
- *When the signals come into this receiver through the analog connection from the source component, "PRO LOGIC" is automatically selected.*
- *The Surround mode is not used with the other DSP modes such as the DAP mode and 3D-PHONIC mode. When the Surround mode is turned on, the other DSP mode, if used, will be turned off.*

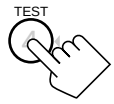
Notes on the indications:

- *The PRO LOGIC indicator lights up when the Dolby Pro Logic decoder built in this receiver is activated.*
- *The Dolby Pro Logic decoder is used not only for the analog sources but also for the sources encoded with Dolby Digital in the following cases:*
  - *When only front channel signals are encoded.*
  - *When front channel and monaural rear channel signals are encoded.*

  While the Dolby Pro Logic is activated for this type of Dolby Digital source, the DIGITAL indicator goes off.

Using the DSP Modes

4. Press TEST to start checking the speaker output balance.
"TEST TONE L" starts flashing on the display, and a test tone comes out of the speakers in the following order:



TEST TONE L (Left front speaker) → TEST TONE C (Center speaker) → TEST TONE R (Right front speaker) → TEST TONE RS (Right rear speaker) → TEST TONE LS (Left rear speaker) →

L C R LS RS

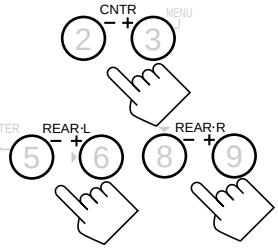
The speaker indicators also light on the display while the test tone comes out of the speakers.

L: Lights when the test tone comes out of the left front speaker.
C: Lights when the test tone comes out of the center speaker.
R: Lights when the test tone comes out of the right front speaker.
RS: Lights when the test tone comes out of the right rear speaker.
LS: Lights when the test tone comes out of the left rear speaker.

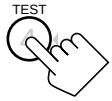
IMPORTANT:

- *Output the test tone while playing back an audio source. With the DVD digital input selected as the source, no test tone may come out while no signal is input to this receiver.*
- *Test tone comes out even while playing back a source encoded with Dolby Digital. In this case, the PRO LOGIC indicator lights up on the display.*

5. Adjust the speaker output levels as follows:
- To adjust the center speaker level, press CNTR +/–.
- To adjust the left rear speaker level, press REAR•L +/–.
- To adjust the right rear speaker level, press REAR•R +/–.



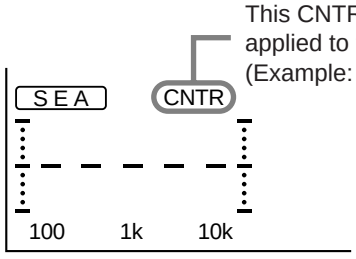
6. Press TEST again to stop the test tone.



7. Press CNTR TONE to select the center tone level you want.
The center tone adjustment affects the mid-frequency range, which the human voice is mostly made up of. Each time you press the button, the display changes to show the following:

SOFT2 → SOFT1 → FLAT → SHARP1 → SHARP2 →

Adjusted levels are also shown on the equalizer display.



To make the dialogue clearer, select "SHARP1" (little) or "SHARP2" (much).
To make the dialogue softer, select "SOFT1" (little) or "SOFT2" (much).
When "FLAT" is selected, no adjustment is applied.

To cancel the Surround mode

Press SURROUND MODE repeatedly until "OFF" appears.

Notes:

- *No test tone comes out of the center speakers when "CENTER SPK" is set to "NONE" (see page 20).*
- *No test tone comes out of the rear speakers when "REAR SPK" is set to "NONE" (see page 20).*
- *If the TV is turned on and the proper video input is selected on the TV, the test tone screen will appear on the TV.*

Notes:

- *You can adjust the speaker output levels and center tone without outputting the test tone.*
- *You cannot adjust the center speaker output level when "CENTER SPK" is set to "NONE" (see page 20).*
- *You cannot adjust the rear speaker levels when "REAR SPK" is set to "NONE" (see page 20).*

Note:

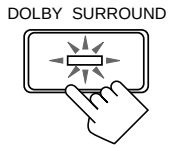
The center tone cannot be adjusted when "CENTER SPK" is set to "NONE" (see page 20).

On the front panel:

You can also use the buttons on the front panel to adjust the Dolby Digital and Dolby Pro Logic modes. However, no test tone is available when using the buttons on the front panel. So, make adjustments while listening to the sound of the source played back.

1. **Select and play the source encoded with Dolby Digital (bearing the mark DOLBY DIGITAL) or with Dolby Surround (bearing the mark DOLBY SURROUND).**
   - When you play back the source encoded with Dolby Digital and select the digital input for that source, the DIGITAL indicator lights up on the display.

2. **Press DOLBY SURROUND so that the lamp on the button lights up.**
   "SURROUND ON" appears on the display.
   Dolby Digital or Dolby Pro Logic is automatically selected according to the source being played back.

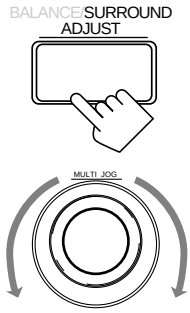


   When Dolby Pro Logic is selected, the lamp on the DOLBY SURROUND button lights red.

   When Dolby Digital is selected, the lamp on the DOLBY SURROUND button lights green.

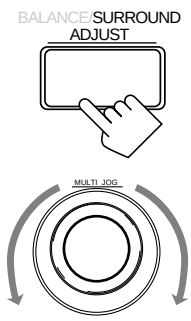
If you need to make any adjustment, go to the following steps.

3. **Adjust the speaker output levels as follows.**
   1) **Press BALANCE/SURROUND ADJUST repeatedly until one of the indications appears on the display.**
      "CENTER LEVEL": To adjust the center speaker level.
      "REAR L LEVEL": To adjust the left speaker level.
      "REAR R LEVEL": To adjust the right speaker level.
   2) **Turn MULTI JOG to adjust the selected speaker output level (from –10 dB to +10 dB), while the indicator of the previous step is still on the display.**
   3) **Repeat 1) and 2) to adjust the other speaker output levels.**



4. **Press BALANCE/SURROUND ADJUST repeatedly until "CENTER TONE" appears on the display.**
   The display changes to show the current setting.

5. **Turn MULTI JOG to select the center tone level you want, while the indication of the previous step is still on the display.**
   The center tone adjustment affects the mid-frequency range, which the human voice is mostly made up of.
   As you turn it, the display changes to show the following:



SOFT2 ⟷ SOFT1 ⟷ FLAT ⟷ SHARP1 ⟷ SHARP2

   To make the dialogue clearer, select "SHARP1" (little) or "SHARP2" (much).
   To make the dialogue softer, select "SOFT1" (little) or "SOFT2" (much).
   When "FLAT" is selected, no adjustment is applied.

To cancel the Surround mode

Press DOLBY SURROUND again so that "SURROUND OFF" appears.

Notes:

- *To enjoy the software encoded with Dolby Digital, you must connect the source component using the digital terminal on the rear of this receiver.*
- *When the signals come into this receiver through the analog connection from the source component, "PRO LOGIC" is automatically selected.*
- *The Surround mode is not used with the other DSP modes such as the DAP mode and 3D-PHONIC mode. When the Surround mode is turned on, the other DSP mode, if used, will be turned off.*

Notes on the indications:

- *The PRO LOGIC indicator lights up when the Dolby Pro Logic decoder built in this receiver is activated.*
- *The Dolby Pro Logic decoder is used not only for the analog sources but also for the sources encoded with Dolby Digital in the following cases:*
  - *When only front channel signals are encoded.*
  - *When front channel and monaural rear channel signals are encoded.*

  While the Dolby Pro Logic is activated for this type of Dolby Digital source, the DIGITAL indicator goes off.

Notes:

- *You cannot adjust the center speaker level when "CENTER SPK" is set to "NONE" (see page 20).*
- *You cannot adjust the rear speaker levels when "REAR SPK" is set to "NONE" (see page 20).*

Using the DSP Modes

Using the Theater Surround Mode

Once you have adjusted the Theater Surround mode, this receiver memorizes the adjustment. To activate the Theater Surround mode, follow the procedure below.

From the remote control:

1. **Select and play the source encoded with Dolby Digital (bearing the mark DOLBY DIGITAL) or with Dolby Surround (bearing the mark DOLBY SURROUND).**
   - When you play back the source encoded with Dolby Digital and select the digital input for that source, the DIGITAL indicator lights up on the display.

2. **Press SURROUND MODE repeatedly until "THEATER" or "DIG-THEATER" appears on the display.**
   The DSP and THEATER indicators also light up on the display.

Each time you press the button, the DSP modes change as follows:

When the digital input is selected to play the source encoded with Dolby Digital:

DOLBY DIGITAL → DIG-THEATER → HEADPHONE → 3D DIGITAL → OFF → DOLBY DIGITAL

For other sources:

PRO LOGIC → THEATER → LIVE CLUB → DANCE CLUB → HALL → PAVILION → HEADPHONE → 3D ACTION → 3D DRAMA → 3D THEATER → OFF → PRO LOGIC

If you need to make any adjustment, go to the following steps.

3. **Press SOUND CONTROL.**
   10 keys are activated for sound adjustments.

4. **Press TEST to start checking the speaker output balance.**
   "TEST TONE L" starts flashing on the display, and a test tone comes out of the speakers in the following order:

TEST TONE L (Left front speaker) → TEST TONE C (Center speaker) → TEST TONE R (Right front speaker) → TEST TONE RS (Right rear speaker) → TEST TONE LS (Left rear speaker) → TEST TONE L

L C R LS RS

The speaker indicators also light on the display while the test tone comes out of the speakers.

L: Lights when the test tone comes out of the left front speaker.
C: Lights when the test tone comes out of the center speaker.
R: Lights when the test tone comes out of the right front speaker.
RS: Lights when the test tone comes out of the right rear speaker.
LS: Lights when the test tone comes out of the left rear speaker.

IMPORTANT:

- *Output the test tone while playing back an audio source.*
  With the DVD digital input selected as the source, no test tone may come out while no signal is input to this receiver.
- *Test tone comes out even while playing back a source encoded with Dolby Digital. In this case, the PRO LOGIC indicator lights up on the display.*

Notes:

- *To enjoy the software encoded with Dolby Digital, you must connect the source component using the digital terminal on the rear of this receiver.*
- *The Surround mode is not used with the other DSP modes such as the DAP mode and 3D-PHONIC mode. When the Surround mode is turned on, the other DSP mode, if used, will be turned off.*

Notes on the indications:

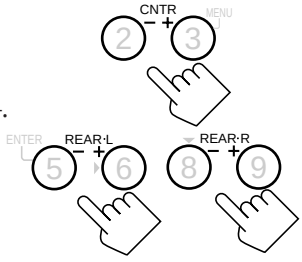
- *The PRO LOGIC indicator lights up when the Dolby Pro Logic decoder built in this receiver is activated.*
- *The Dolby Pro Logic decoder is used not only for the analog sources but also for the sources encoded with Dolby Digital in the following cases:*
  - *When only front channel signals are encoded.*
  - *When front channel and monaural rear channel signals are encoded.*

  While the Dolby Pro Logic is activated for this type of Dolby Digital source, the DIGITAL indicator goes off.

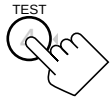
Notes:

- *No test tone comes out of the center speakers when "CENTER SPK" is set to "NONE" (see page 20).*
- *No test tone comes out of the rear speakers when "REAR SPK" is set to "NONE" (see page 20).*
- *If the TV is turned on and the proper video input is selected on the TV, the test tone screen will appear on the TV.*

5. **Adjust the speaker output levels as follows:**
   - To adjust the center speaker level, press CNTR +/–.
   - To adjust the left rear speaker level, press REAR•L +/–.
   - To adjust the right rear speaker level, press REAR•R +/–.



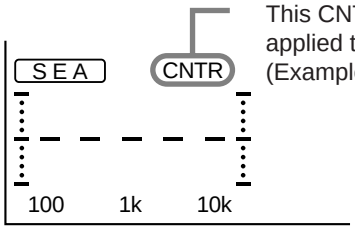
6. **Press TEST again to stop the test tone.**



7. **Press CNTR TONE to select the center tone level you want.**
   The center tone adjustment affects the mid-frequency range, which the human voice is mostly made up of.
   Each time you press the button, the display changes to show the following:

SOFT2 ⟶ SOFT1 ⟶ FLAT ⟶ SHARP1 ⟶ SHARP2

   Adjusted levels are also shown on the equalizer display.



This CNTR means this adjustment can be applied to the center speaker only.
(Example: When “FLAT” is selected.)

   To make the dialogue clearer, select “SHARP1” (little) or “SHARP2” (much).
   To make the dialogue softer, select “SOFT1” (little) or “SOFT2” (much).
   When “FLAT” is selected, no adjustment is applied.

8. **Press EFFECT to select the effect level.**
   Each time you press the button, the effect level changes as follows:

DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 → DSP EFFECT 4 → DSP EFFECT 5

   As the number increases, the surround effect becomes stronger.

To cancel the Theater Surround mode

Press SURROUND MODE repeatedly until “OFF” appears.
The DSP and THEATER indicators goes off.

Notes:

- *You can adjust the speaker output levels and center tone without outputting the test tone.*
- *You cannot adjust the center speaker level when “CENTER SPK” is set to “NONE” (see page 20).*
- *You cannot adjust the rear speaker levels when “REAR SPK” is set to “NONE” (see page 20).*

Note:

The center tone cannot be adjusted when “CENTER SPK” is set to “NONE” (see page 20).

Note:

You cannot adjust the effect level when “REAR SPK” is set to “NONE” (see page 20).

Using the DSP Modes

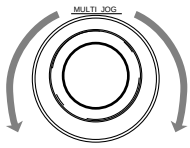
On the front panel:

You can also use the buttons on the front panel to adjust the Theater Surround mode. However, no test tone is available when using the buttons on the front panel. So, make adjustments while listening to the sound of the source played back.

1. **Select and play the source encoded with Dolby Digital (bearing the mark DOLBY DIGITAL) or with Dolby Surround (bearing the mark DOLBY SURROUND).**
   - When you play back the source encoded with Dolby Digital and select the digital input for that source, the DIGITAL indicator lights up on the display.

2. **Press DSP MODE.**
   The current DSP mode appears on the display.

3. **Turn MULTI JOG until "THEATER" or "DIG-THEATER" appears on the display, while the indication of the previous step is still on the display.**
   The DSP and THEATER indicators also light up on the display.



As you turn it, the DSP modes change as follows:

When the digital input is selected to play the source encoded with Dolby Digital:

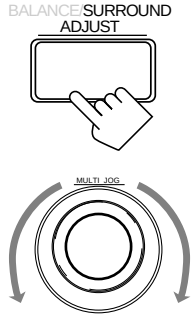
DIG-THEATER ⟷ HEADPHONE
DSP OFF ⟷ 3D DIGITAL

For other sources:

THEATER ⟷ LIVE CLUB ⟷ DANCE CLUB ⟷ HALL ⟷ PAVILION ⟷ HEADPHONE ⟷ 3D ACTION ⟷ 3D DRAMA ⟷ 3D THEATER ⟷ DSP OFF

If you need to make any adjustment, go to the following steps.

4. **Adjust the speaker output levels as follows.**
   1) **Press BALANCE/SURROUND ADJUST repeatedly until one of the indications appears on the display.**
      "CENTER LEVEL": To adjust the center speaker level.
      "REAR L LEVEL": To adjust the left speaker level.
      "REAR R LEVEL": To adjust the right speaker level.
   2) **Turn MULTI JOG to adjust the selected speaker output level (from –10 dB to +10 dB), while the indication of the previous step is still on the display.**
   3) **Repeat 1) and 2) to adjust the other speaker output levels.**



Notes:

- *To enjoy the software encoded with Dolby Digital, you must connect the source component using the digital terminal on the rear of this receiver.*
- *The Surround mode is not used with the other DSP modes such as the DAP mode and 3D-PHONIC mode. When the Surround mode is turned on, the other DSP mode, if used, will be turned off.*

Notes on the indications:

- *The PRO LOGIC indicator lights up when the Dolby Pro Logic decoder built in this receiver is activated.*
- *The Dolby Pro Logic decoder is used not only for the analog sources but also for the sources encoded with Dolby Digital in the following cases:*
  - *When only front channel signals are encoded.*
  - *When front channel and monaural rear channel signals are encoded.*

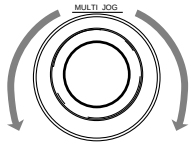
  While the Dolby Pro Logic is activated for this type of Dolby Digital source, the DIGITAL indicator goes off.

Notes:

- *You cannot adjust the center speaker level when "CENTER SPK" is set to "NONE" (see page 20).*
- *You cannot adjust the rear speaker levels when "REAR SPK" is set to "NONE" (see page 20).*

5. **Press BALANCE/SURROUND ADJUST repeatedly until "CENTER TONE" appears on the display.**
   The display changes to show the current setting.

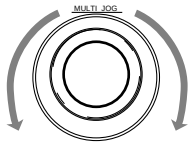
6. **Turn MULTI JOG to select the center tone level you want, while the indication of the previous step is still on the display.**
   The center tone adjustment affects the mid-frequency range, which the human voice is mostly made up of.
   As you turn it, the display changes to show the following:



SOFT2 ⟷ SOFT1 ⟷ FLAT ⟷ SHARP1 ⟷ SHARP2

7. **Press BALANCE/SURROUND ADJUST repeatedly until "DSP EFFECT" appears on the display.**
   The display changes to show the current setting.

8. **Turn MULTI JOG to select the effect level, while the indication of the previous step is still on the display.**
   As you turn it, the effect level changes as follows:



DSP EFFECT 1 ⟷ DSP EFFECT 2 ⟷ DSP EFFECT 3
DSP EFFECT 5 ⟷ DSP EFFECT 4

   As the number increases, the surround effect becomes stronger.

To cancel the Theater Surround mode

Turn MULTI JOG until "DSP OFF" appears in step 3.
The DSP and THEATER indicators goes off.

Note:

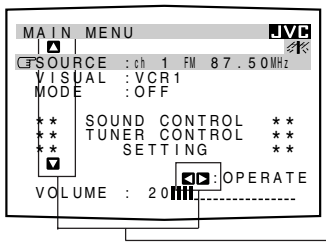
You cannot adjust the effect level when "REAR SPK" is set to "NONE" (see page 20).

Using the On-Screen Menus

You can use the menus on the TV screen to control the receiver.
To use this function, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 10), and set the TV's input mode to the proper position to which the receiver is connected.

Selecting the Source to Play (Also see page 14)

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.



MAIN MENU

Shows the buttons you can use on the current menu.
In this case, use △ / ▽ to move ☞ up and down, and ◁ / ▷ to select, adjust or set the item.

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SOURCE."**
3. **Press ON SCREEN CONTROL ◁ / ▷ to select the source.**
4. **When you finish, press EXIT.**
   The menu disappears from the TV.

Notes

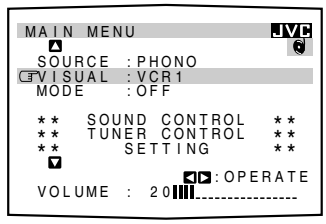
- *The on-screen display will disappear if no operation is done for about one minute.*
- *If your TV is not of the PAL color system, the TV screen will be distorted.*

Selecting the Different Sources for Picture and Sound

You can view the pictures played back on a video component while listening to any source.

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.
2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "VISUAL."**
3. **Press ON SCREEN CONTROL ◁ / ▷ to select a different video source.**
   • When you select "OSD," see page 56.
4. **When you finish, press EXIT.**
   The menu disappears from the TV.

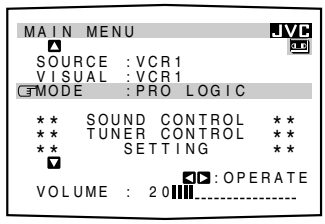
MAIN MENU



Using the DSP Modes (Also see pages 35, 38, 40, and 43)

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.
2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "MODE."**
3. **Press ON SCREEN CONTROL ◁ / ▷ to select the DSP mode you want to use.**
4. **When you finish, press EXIT.**
   The menu disappears from the TV.

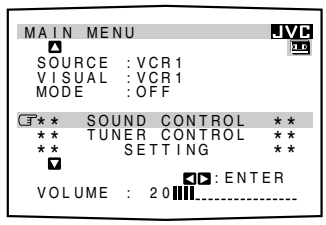
MAIN MENU



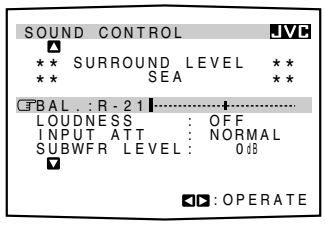
Adjusting the Front Speaker Output Balance (Also see page 19)

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.
2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears on the TV.
3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "BAL." (Balance).**
4. **Press ON SCREEN CONTROL ◁ / ▷ to adjust the balance.**
5. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

MAIN MENU



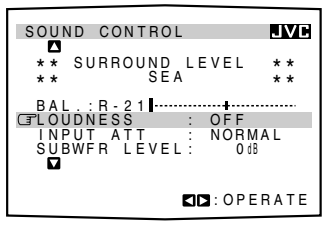
SOUND CONTROL menu



Listening at Low Volume (Loudness) (Also see page 19)

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.
2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears on the TV.
3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "LOUDNESS."**
4. **Press ON SCREEN CONTROL ◁ / ▷ to turn the loudness "ON" or "OFF."**
5. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

SOUND CONTROL menu

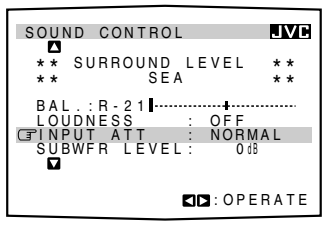


Attenuating the Input Signal (Also see page 17)

This function is available only for the sources connected using the analog terminals and takes effect only when the DSP mode is in use.

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.
2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears on the TV.
3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "INPUT ATT."**
4. **Press ON SCREEN CONTROL ◁ / ▷ to turn the function on ("ATT ON") or off ("NORMAL").**
5. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

SOUND CONTROL menu



Using the On-Screen Menus

Adjusting the Subwoofer Output Level (Also see page 17)

You can adjust the subwoofer output level if you have selected "YES" for the "SUBWOOFER" (see page 19).

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.

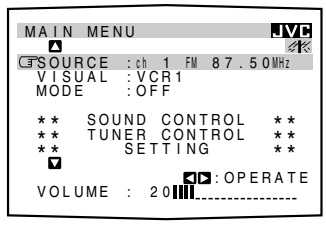
2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears on the TV.

3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SUBWFR LEVEL" (Subwoofer Level).**

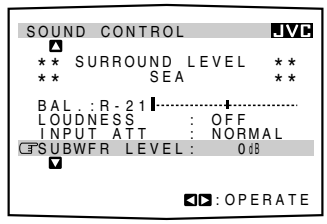
4. **Press ON SCREEN CONTROL ◁ / ▷ to adjust the subwoofer output level.**

5. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

MAIN MENU



SOUND CONTROL menu



Adjusting the DSP Modes (Also see pages 35, 38, 40, and 43)

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "MODE."**

3. **Press ON SCREEN CONTROL ◁ / ▷ to select the DSP mode you want to adjust.**

4. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears.

5. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SURROUND LEVEL," then press ◁ / ▷.**
   The SURROUND LEVEL menu appears.
   - If you select "HEADPHONE" in step 3, the SURROUND LEVEL menu will not appear.

6. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to the item you want to set or adjust, then press ON SCREEN CONTROL ◁ / ▷.**
   On these adjustment menus, you can do the following:

   For 3D-PHONIC modes:
   "DSP EFFECT": Adjust the effect level.

   For DAP modes (LIVE CLUB, DANCE CLUB, HALL, PAVILION):
   "REAR L LEVEL": Adjust the left rear speaker output level. *
   "REAR R LEVEL": Adjust the right rear speaker output level. *
   "DSP EFFECT": Select the effect level.

For Dolby Surround Pro Logic:

"TEST TONE": Output a test tone.
"CENTER LEVEL": Adjust the center speaker output level. **
"REAR L LEVEL": Adjust the left rear speaker output level. *
"REAR R LEVEL": Adjust the right rear speaker output level. *
"CENTER TONE": Select the center tone level. **

For Dolby Digital:

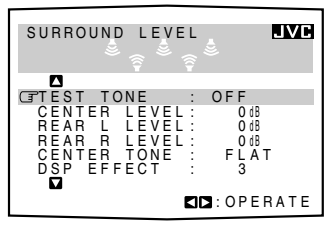
"TEST TONE": Output a test tone.
"CENTER LEVEL": Adjust the center speaker output level. **
"REAR L LEVEL": Adjust the left rear speaker output level. *
"REAR R LEVEL": Adjust the right rear speaker output level. *
"CENTER TONE": Select the center tone level. **

For Theater Surround and Digital Theater Surround:

"TEST TONE": Output a test tone.
"CENTER LEVEL": Adjust the center speaker output level. **
"REAR L LEVEL": Adjust the left rear speaker output level. *
"REAR R LEVEL": Adjust the right rear speaker output level. *
"CENTER TONE": Select the center tone level. **
"DSP EFFECT": Select the effect level.*

7. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

Example:
SURROUND LEVEL menu
for Theater Surround



Notes:

** Not displayed when "REAR SPK" is set to "NONE" (see page 20).*
*** Not displayed when "CENTER SPK" is set to "NONE" (see page 20).*

Selecting Your Favorite SEA Mode (Also see page 32)

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
The MAIN MENU appears on the TV.

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
The SOUND CONTROL menu appears.

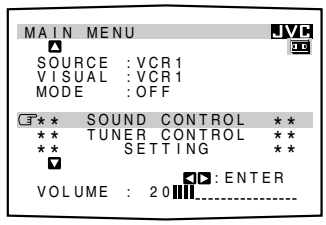
3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SEA," then press ◁ / ▷.**
The SEA menu appears.

4. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SEA MODE."**

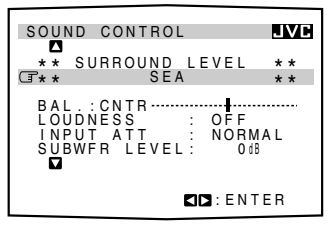
5. **Press ON SCREEN CONTROL ◁ / ▷ to select the SEA mode you want.**

6. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

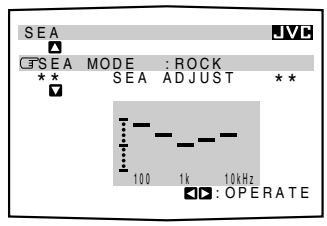
MAIN MENU



SOUND CONTROL menu



SEA menu



Using the On-Screen Menus

Creating Your Own SEA Mode (Also see page 33)

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears.

3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SEA," then press ◁ / ▷.**
   The SEA menu appears.

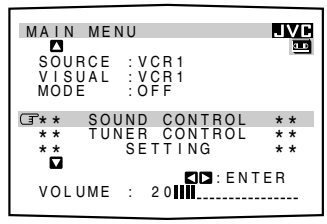
4. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SEA ADJUST," then press ◁ / ▷.**
   The SEA ADJUST menu appears.

5. **Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to adjust the SEA mode as you want.**
   ◁ / ▷ : Select the frequency ranges.
   △ / ▽ : Adjust the frequency levels.

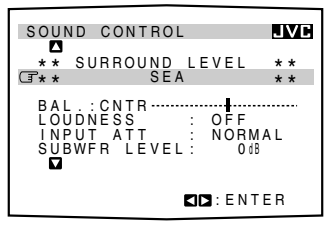
6. **Press SET to store the setting into the SEA USERMODE.**
   • If you press EXIT, without pressing SET in this step, you can return to the SEA menu. (The adjustment you have made is active but not stored.)

7. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

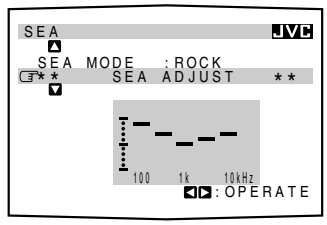
MAIN MENU



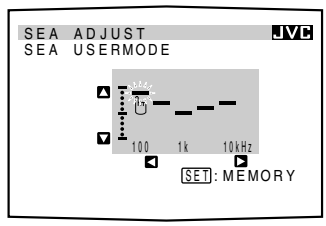
SOUND CONTROL menu



SEA menu



SEA ADJUST menu



Basic Settings

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.

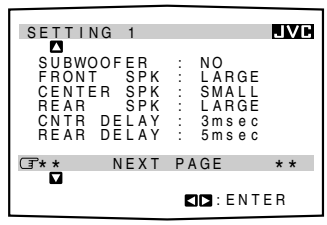
2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SETTING," then press ◁ / ▷.**
   The SETTING 1 or SETTING 2 menu appears.

3. **Press ON SCREEN CONTROL △ / ▽ to the setting item you want to adjust.**
   • To go to the SETTING 2 menu, move ☞ to "NEXT PAGE," then press ◁ / ▷.
   • To go back to the SETTING 1 menu, move ☞ to "PREVIOUS PAGE," then press ◁ / ▷.

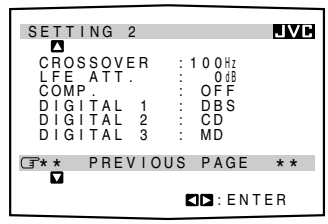
   On the SETTING 1 and 2 menus, you can do the following:

"SUBWOOFER":	Set the subwoofer information (See page 19).
"FRONT SPK":	Set the front speaker information (See page 20).
"CENTER SPK":	Set the center speaker information (See page 20).
"REAR SPK":	Set the rear speaker information (See page 20).
"CNTR DELAY":	Adjust the delay time of the center speaker output (See page 21).
"REAR DELAY":	Adjust the delay time of the rear speaker output (See page 21).
"CROSSOVER":	Set the crossover frequency (See page 21).
"LFE ATT.":	Set the low frequency effect attenuator level (See page 22).
"COMP.":	Set the dynamic range compression (See page 22).
"DIGITAL 1/2/3":	Set the digital input terminal (See page 20).

SETTING 1 menu



SETTING 2 menu



4. **Press ON SCREEN CONTROL ◁ / ▷ to set (or adjust) the setting item selected in step 3.**

5. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

Operating the Tuner

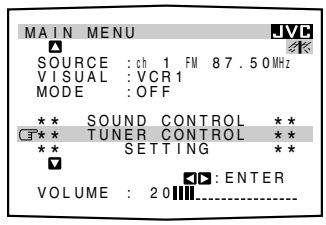
1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "TUNER CONTROL," then press ◁ / ▷.**
   The TUNER CONTROL menu appears.

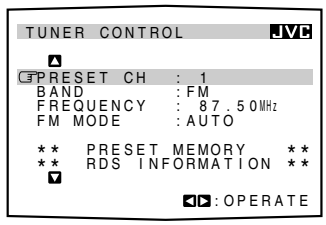
3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to the item you want to set or adjust, then press ON SCREEN CONTROL ◁ / ▷.**
   On the TUNER CONTROL menu, you can do the following:
   "PRESET CH": Select a preset channel station. (See page 25)
   "BAND": Select the band. (See page 24)
   "FREQUENCY": Tune in a station manually. (See page 24)
   "FM MODE": Select the FM reception mode. (See page 25) *
   "PRESET MEMORY": See "Storing the Preset Stations" below.
   "RDS INFORMATION": See "Checking the RDS Information." (See page 54)

4. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

MAIN MENU



TUNER CONTROL menu



Note:

** Not displayed when an AM station is selected.*

Storing the Preset Stations (Also see page 24)

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "TUNER CONTROL," then press ◁ / ▷.**
   The TUNER CONTROL menu appears.

3. **Tune into a station on the TUNER CONTROL menu, referring to "Operating the Tuner" above.**

4. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "PRESET MEMORY," then press ◁ / ▷.**
   The PRESET MEMORY menu appears.

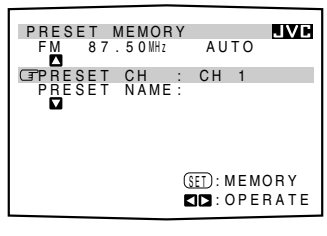
5. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "PRESET CH"**

6. **Press ON SCREEN CONTROL ◁ / ▷ to select a preset station number you want.**

7. **Press SET to store the setting.**

8. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

PRESET MEMORY menu



Using the On-Screen Menus

Assigning Names to the Preset Stations (Also see page 26)

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "TUNER CONTROL," then press ◁ / ▷.**
   The TUNER CONTROL menu appears.

3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "PRESET CH."**

4. **Press ON SCREEN CONTROL ◁ / ▷ to select a preset station.**

5. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "PRESET MEMORY," then press ◁ / ▷.**
   The PRESET MEMORY menu appears.

6. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "PRESET NAME," then press SET.**
   The character entry screen appears.

7. **Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ in front of a character you want.**
   You can also select the following:
   SPACE: To enter space CANCEL: To erase the character
   ◀ ▶ : To go back to the previous character position or go to the next character position

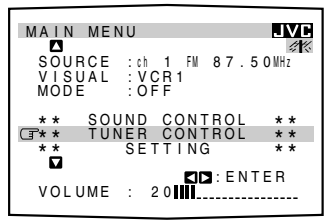
8. **Press SET to enter the selected character.**

9. **Repeat steps 7 and 8 to enter up to four characters.**

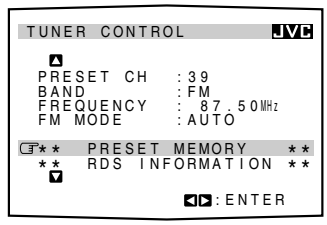
10. **Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ to "PRESET NAME," then press SET to store the setting.**
    The TUNER CONTROL menu appears again.

11. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

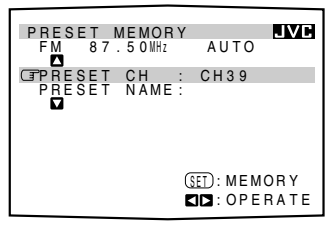
MAIN MENU



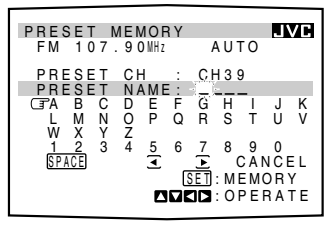
TUNER CONTROL menu

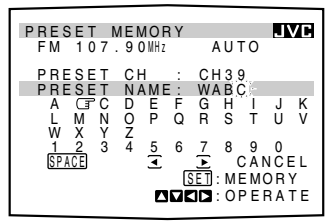


PRESET MEMORY menu



PRESET MEMORY menu:
Character entry screen


PRESET MEMORY
JVC
FM 107.90MHz AUTO
PRESET CH : CH39
PRESET NAME: _ _ _ _
A B C D E F G H I J K
L M N O P Q R S T U V
W X Y Z
1 2 3 4 5 6 7 8 9 0
SPACE
CANCEL
SET:MEMORY
▲▼◀▶:OPERATE


PRESET MEMORY
JVC
FM 107.90MHz AUTO
PRESET CH : CH39
PRESET NAME: WABC
A B C D E F G H I J K
L M N O P Q R S T U V
W X Y Z
1 2 3 4 5 6 7 8 9 0
SPACE
CANCEL
SET:MEMORY
▲▼◀▶:OPERATE

Checking the RDS Information (Also see page 27)

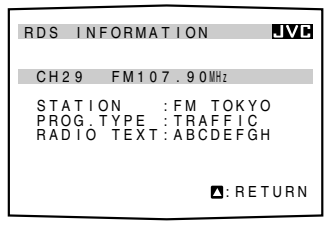
1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "TUNER CONTROL," then press ◁ / ▷.**
   The TUNER CONTROL menu appears.

3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "RDS INFORMATION," then press ◁ / ▷.**
   The RDS INFORMATION menu appears.

4. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

RDS INFORMATION menu



Notes:

- *The on-screen display cannot show accented letters.*
- *RDS is not available for AM (MW/LW) broadcasts.*

English

COMPU LINK Remote Control System

The COMPU LINK remote control system allows you to operate JVC audio components through the remote sensor on the receiver.

To use this remote control system, you need to connect JVC audio components through the COMPU LINK-3 (SYNCHRO) jacks (see below) in addition to the connections using cables with RCA pin plugs (see page 9) (and a digital cable if you want — see page 12).

- Make sure that the AC power cords of these components are unplugged before connection. Plug the AC power cords only after all connections are complete.

CD player | Cassette deck or MD recorder | Turntable

This remote control system allows you to use four functions listed below.

Remote Control through the Remote Sensor on the Receiver

You can control the connected audio components through the remote sensor on the receiver using this remote control. Aim the remote control directly at the remote sensor on the receiver. For details, see pages 63 and 64.

Automatic Source Selection

When you press the play (►) button on a connected component or on its own remote control, the receiver automatically turns on and changes the source to the component. On the other hand, if you select a new source on the receiver or the remote control, the selected component begins playing immediately.
In both cases, the previously selected source continues playing without sound for a few seconds.

Automatic Power On/Off (Standby): only possible with the COMPU LINK-3 connection

Both the CD player and cassette deck (or MD recorder) turn on and off (standby) along with the receiver.
When you turn on the receiver, the CD player or cassette deck (or MD recorder) will turn on automatically, depending on which component has been previously selected.
When you turn off the receiver, both the CD player and cassette deck (or MD recorder) will turn off (standby).

Synchronized Recording

Synchronized recording means the cassette deck (or MD recorder) starts recording as soon as a CD or a record begins playing.

To use synchronized recording, follow these steps:

1. **Put a tape in the cassette deck (or an MD in the MD recorder), and a disc in the CD player (or a record on the turntable).**
2. **Press the record (●) button and the pause (II) button on the cassette deck (or MD recorder) at the same time.**
   This puts the cassette deck (or MD recorder) into recording pause.
   If you do not press the record (●) button and pause (II) button at the same time, the synchronized recording feature will not operate.
3. **Press the play (►) button on the CD player or on the turntable.**
   The source changes on the receiver, and as soon as play starts, the cassette deck (or MD recorder) starts recording. When the play ends, the cassette deck (or MD recorder) enters recording pause, and stops about 4 seconds later.

Notes:

- *If your audio component has two COMPU LINK-3 (SYNCHRO) jacks, you can use either one. If it has only one COMPU LINK-3 (SYNCHRO) jack, connect it so that it is the last item in the series of components. (For example, the turntable or CD player in the diagram to the left.)*
- *To operate the cassette deck or MD recorder using the COMPU LINK remote control system, set the source name correctly. (See page 18.)*
- *Refer also to the manuals supplied with your audio components.*

Notes:

- *During synchronized recording, the selected source cannot be changed.*
- *If your CD player is playing in program mode, a 4-second blank is recorded between tracks so that the music scan feature of your cassette deck can be used on the recorded tape.*
- *If the power of any component is shut off during synchronized recording, the COMPU LINK remote control system may not operate properly. In this case, you must start again from the beginning.*

TEXT COMPU LINK Remote Control System

English

The TEXT COMPU LINK remote control system has been newly developed to deal with the disc information recorded in the CD Text and MDs. Using these information in the discs, you can operate the CD player or MD recorder equipped with the TEXT COMPU LINK remote control system through the receiver.*

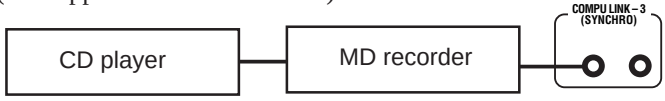
CONNECTIONS:

To use this remote control system, you need to connect the CD player and/or MD recorder you want to operate, following the procedures below.

1. **If you have already plugged your CD player, MD recorder, and this receiver into the AC outlets, unplug their AC power cords first.**

2. **Connect your CD player, MD recorder, and this receiver as follows, through the COMPU LINK-3 (SYNCHRO) jacks and TEXT COMPU LINK jacks.**

   1) **COMPU LINK-3 (SYNCHRO) jacks:** Use the cables with the monaural mini-plugs (not supplied with this receiver)



   2) **TEXT COMPU LINK jacks:** Use the cables with the stereo mini-plugs (not supplied with this receiver)

IMPORTANT:

Set the Master/Slave Selector on the rear to "1(MASTER UNIT)."

- **"2(SLAVE UNIT)" is just for the serviceman's use. The TEXT COMPU LINK remote control system does not function with the selector set to "2(SLAVE UNIT)."**

3. **Connect your CD player, MD recorder and this receiver, using the cables with RCA pin plugs (see page 9) (and a digital cable if you want — see page 12).**

4. **Plug the AC power cords of these components above into the AC outlets.**

5. **When turning on these components for the first time, turn on the connected components first, then turn on this receiver.**

FUNCTIONS:

This remote control system allows you to use the functions listed below.

Displaying the Disc Information on the TV screen

Disc information such as its performer and disc title (and track titles only when a CD Text is selected) is shown on the TV screen.

Disc Search: Only for CD Player

This remote control system can allow you to search discs by the performer, disc title, and music genre.
With this disc search, you can easily find the disc you want to play.

Additional Functions:

- If your CD player has the User File function, you can select a disc from the groups.
  * A "user file" is a group of the discs you make as you like on the CD player.
- If your CD player has the disc memory function, you can input the performer, disc title, and music genre about these normal audio CDs on the TV screen.

****What is a CD Text?***

In a CD Text, some information about the disc (its disc title, performer, composer, arranger, etc.) is recorded.

Notes:

- *If your audio component has two COMPU LINK-3 (SYNCHRO) jacks, you can use either one. If it has only one COMPU LINK-3 (SYNCHRO) jack, connect it so that it is the last item in the series of components. (For example, the CD player in the diagram to the left.)*
- *If your audio component has two TEXT COMPU LINK jacks, you can use either one. If it has only one TEXT COMPU LINK jack, connect it so that it is the last item in the series of components. (For example, the CD player in the diagram to the left.)*
- *Refer also to the manuals supplied with your CD player or MD recorder.*

Note:

If you turn on the receiver before turning on the other components after connecting components, the TEXT COMPU LINK remote control system does not work correctly.
If this happens:

1. ***Turn off the all components including this receiver.***
2. ***Turn on the connected components.***
3. ***Turn on this receiver.***

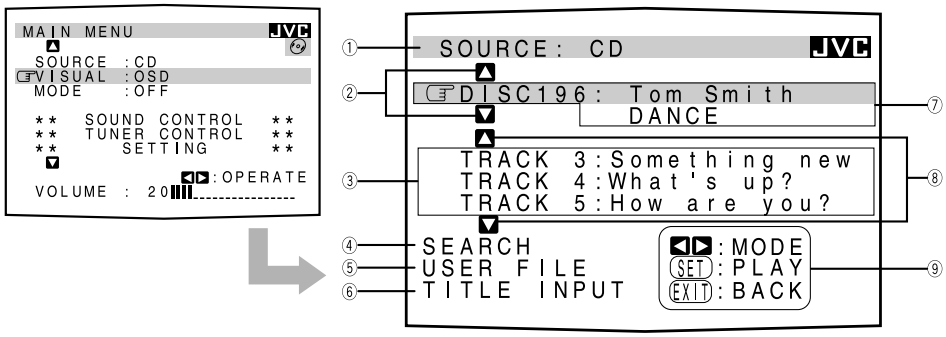
TEXT COMPU LINK Remote Control System

OPERATIONS

To use this remote control system, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 10), and set the TV's input mode to the proper position to which the receiver is connected. **Make sure you have connected the CD player or MD recorder equipped with the TEXT COMPU LINK remote control system. If not, you cannot use the following functions.**

Showing the Disc Information on the TV Screen

1. **Press any button of ON SCREEN CONTROL △ / ▽ / ◁ / ▷ once.**
   The MAIN MENU appears on the TV.
2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SOURCE."**
3. **Press ON SCREEN CONTROL ◁ / ▷ to select "CD" or "MD."**
4. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "VISUAL."**
5. **Press ON SCREEN CONTROL ◁ / ▷ to select "OSD," then press EXIT.**
   The Disc Information screen appears on the TV.



① Source name: CD or MD
② Select ▲ or ▼, then press SET to change the disc.
③ Track numbers and track titles.
- The current playing (selected) track is indicated in yellow.
- When you move ☞ to a track number, you can change the track information by pressing ◁ / ▷. Each time you press the button, track information alternates between its track title and its performer. (You can also start playing the track by pressing SET.)

④ Select this (move ☞ in front), then press SET to go to the DISC SEARCH screen (see page 58).
⑤ Select this (move ☞ in front), then press SET to go to the USER FILE screen (see page 60).
⑥ Select this (move ☞ in front), then press SET to go to the TITLE INPUT screen (see page 61).
⑦ Disc information such as the disc title, performer, and music genre.
When this is selected (☞ in front) , you can change the disc information by pressing ◁ / ▷. Each time you press the button, disc information (see the note) changes.
⑧ Select ▲ or ▼, then press SET to change the track.
⑨ Usable buttons and their functions for the current selection.
Indication here will be changed what is currently selected (☞ in front) on the screen.

6. **When you finish, press EXIT repeatedly until the MAIN MENU appears on the TV.**

To exit from the MAIN MENU:
1) Press ON SCREEN CONTROL △ / ▽ to move ☞ to "VISUAL."
2) Press ON SCREEN CONTROL ◁ / ▷ to select any one other than "OSD," then press EXIT.

Notes:

- *The on-screen display will not appear about one minute after the power is turned on.*
- *The on-screen display will disappear in the following case:*
  - *– if no operation is done for about 10 minutes.*
  - *– if you do any operation other than explained in this section.*
- *To control the MD recorder using the TEXT COMPU LINK remote control system, you have to change the source name shown on the display from "TAPE" to "MD." (See page 18.)*
- *The number of characters to show the disc information such as the disc title or track title is limited to 32. So if the disc title, for example, is longer than 32 characters, only the first 32 characters are shown.*
- *Some special characters such as accented letters cannot be displayed correctly.*

Note on ⑦

The following information will appear on the display:

- *Disc title*
- *Performer*
- *Genre*
- *Song writer*
- *Composer*
- *Arranger*
- *Message*

Only recorded information will be shown. If there is no data, "NO DATA" will appear.

Note on ⑨

For example, the SET button will be used to start play (PLAY), to go to the next screen (ENTER), and to determine the selection (ENTER).

Searching a Disc (Only for the CD player)

Search a disc by its performer:

1. **Display the disc information screen by following the procedure on page 57.**

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SEARCH," then press SET.**
   The DISC SEARCH screen appears on the TV.

3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "PERFORMER", then press SET.**
   The PERFORMER SEARCH screen appears.

4. **Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ in front of the first character of the performer you want to search, then press SET.**

   To correct the incorrect entry, press ON SCREEN CONTROL △ / ▽ to move ☞ in front of the correct character, then press SET.

   To erase the incorrect entry, press ON SCREEN CONTROL △ / ▽ to move ☞ to CANCEL, then press SET.

5. **Press SET again.**
   Disc search starts, then the SEARCH RESULT screen, showing the performers, appears.

6. **On the SEARCH RESULT screen, you can do the following:**
   - **Changing the indication of the disc information:** Press ON SCREEN CONTROL △ / ▽ to move ☞ to a searched disc, then press ◁ / ▷. Each time you press ◁ / ▷, the disc information alternates between its performer and its disc title.
   - **Going to the Disc Information screen (see page 57):** Press ON SCREEN CONTROL △ / ▽ to move ☞ to a searched disc, then press SET.
   - **Showing unseen disc information** (if more than 5 discs are listed as a result of the search)**:** Press ON SCREEN CONTROL △ / ▽ to move ☞ to ▼ (or ▲), then press SET.
   - **Going back to the PERFORMER SEARCH screen:** Press EXIT.

Search a disc by its disc title:

1. **Display the disc information screen by following the procedure on page 57.**

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SEARCH," then press SET.**
   The DISC SEARCH screen appears on the TV.

3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ "DISC TITLE", then press SET.**
   The DISC TITLE SEARCH screen appears.

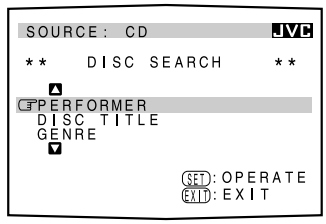
4. **Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ in front of the first character of the disc title you want to search, then press SET.**

   To correct the incorrect entry, press ON SCREEN CONTROL △ / ▽ move ☞ in front of the correct character, then press SET.

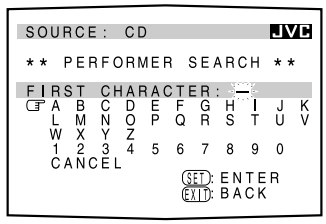
   To erase the incorrect entry, press ON SCREEN CONTROL △ / ▽ move ☞ to CANCEL, then press SET.

Continued to the next page.

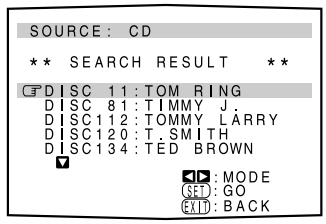
DISC SEARCH screen



PERFORMER SEARCH screen



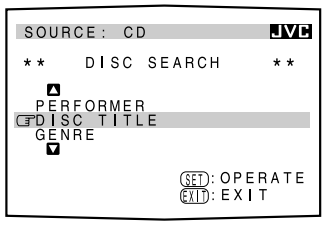
SEARCH RESULT screen



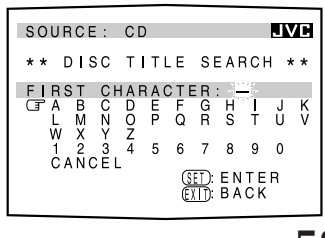
Note

Symbols such as @, # or $ cannot be available for search.

DISC SEARCH screen



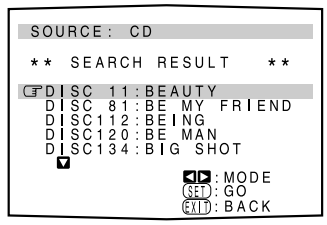
DISC TITLE SEARCH screen



5. **Press SET again.**
   Disc search starts, then the SEARCH RESULT screen, showing the disc titles, appears.

6. **On the SEARCH RESULT screen, you can do the following:**
   - **Changing the indication of the disc information:** Press ON SCREEN CONTROL △ / ▽ to move ☞ to a searched disc, then press ◁ / ▷. Each time you press ◁ / ▷, the disc information alternates between its disc title and its performer.
   - **Going to the Disc Information screen (see page 57):** Press ON SCREEN CONTROL △ / ▽ to move ☞ to a searched disc, then press SET.
   - **Showing unseen disc information** (if more than 5 discs are listed as a result of the search)**:** Press ON SCREEN CONTROL △ / ▽ to move ☞ to ▼ (or ▲), then press SET.
   - **Going back to the DISC TITLE SEARCH screen:** Press EXIT.

SEARCH RESULT screen



Note

Symbols such as @, # or $ cannot be available for search.

Search a disc by its genre:

1. **Display the disc information screen by following the procedure on page 57.**

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "SEARCH," then press SET.**
   The DISC SEARCH screen appears on the TV.

3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "GENRE", then press SET.**
   The GENRE SEARCH screen appears.

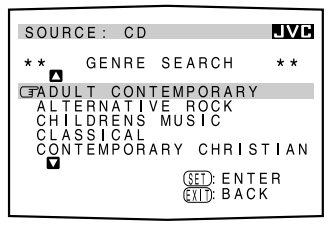
4. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to the genre you want to search, then press SET.**

   To show the unseen genres, press ON SCREEN CONTROL △ / ▽ until they appear.

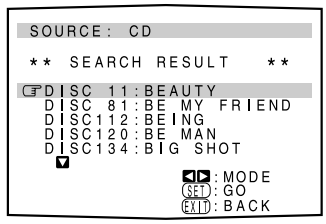
   Disc search starts, then the SEARCH RESULT screen, showing the disc titles, appears.

5. **On the SEARCH RESULT screen, you can do the following:**
   - **Changing the indication of the disc information:** Press ON SCREEN CONTROL △ / ▽ to move ☞ to a searched disc, then press ◁ / ▷. Each time you press ◁ / ▷, the disc information alternates between its disc title and its performer.
   - **Going to the Disc Information screen (see page 57):** Press ON SCREEN CONTROL △ / ▽ to move ☞ to a searched disc, then press SET.
   - **Showing unseen disc information** (if more than 5 discs are listed as a result of the search)**:** Press ON SCREEN CONTROL △ / ▽ to move ☞ to ▼ (or ▲), then press SET.
   - **Going back to the GENRE SEARCH screen:** Press EXIT.

GENRE SEARCH screen



SEARCH RESULT screen



Using the User File (Only for the CD Player with the User File Function)

You can use the User File function through this receiver.
For the User File function, refer to the manual supplied with your CD player.

Using your own User Files:

1. **Display the disc information screen by following the procedure on page 57.**

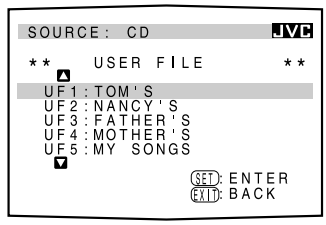
2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "USER FILE," then press SET.**
   The USER FILE screen appears on the TV.

   To show the unseen user files, press ON SCREEN CONTROL △ / ▽ until they appear.

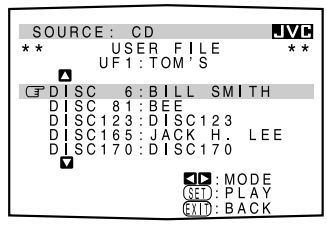
3. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to the User File you want, then press SET.**
   The selected User File screen appears on the TV.
   The disc information shown will be the disc title. (If no disc title information is recorded for the discs, only the disc numbers will be shown.)

4. **On this selected User File screen, you can do the following:**
   - **Changing the indication of the disc information:** Press ON SCREEN CONTROL △ / ▽ to move ☞ to a disc, then press ◁ / ▷. Each time you press ◁ / ▷, the disc information alternates between its disc title and its performer.
   - **Starting a disc play:** Press ON SCREEN CONTROL △ / ▽ to move ☞ to a disc, then press SET.
   - **Showing unseen disc information** (if more than 5 discs are listed)**:** Press ON SCREEN CONTROL △ / ▽ to move ☞ to ▼ (or ▲) and press SET.
   - **Going back to the USER FILE screen:** Press EXIT.

USER FILE screen



User File 1 screen



Entering the Disc Information

For the CD Player with the disc memory function:

You can use the disc memory function through this receiver.
The disc information (its performer, disc title, and its music genre) of normal audio CDs will be stored into the memory built in the CD player.
For the disc memory function, refer to the manual supplied with your CD player.

- The performer, disc title, and music genre information are usually recorded in a CD Text. However, if a CD Text has no genre information recorded in the disc itself, you can input its music genre by yourself.
  Note: You can enter the TITLE INPUT screens for a CD Text and input its titles. However, **you cannot store the titles you have input for a CD Text.**

Example: Entering the following information for Disc 1
Performer: "MICHEAL"
Disc title: "MY FAVORITE"

1. **Display the disc information screen by following the procedure on page 57.**

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "TITLE INPUT," then press SET.**
   The TITLE INPUT: PERFORMER screen appears on the TV.

3. **Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ in front of a character you want, then press SET to enter the character.**
   - If the current CD is a CD Text, go to step **5** without entering the performer.

   To use the lower case letters, press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ to SHIFT, then press SET.
   To use the upper case letters again, press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ to SHIFT, then press SET.

4. **Repeat step 3 until you finish putting a name (up to 32 characters) to this User File.**

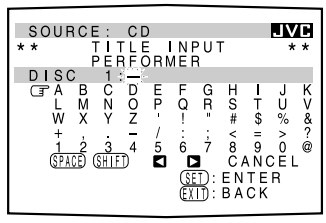
   To insert a space, press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ to SPACE, then press SET.

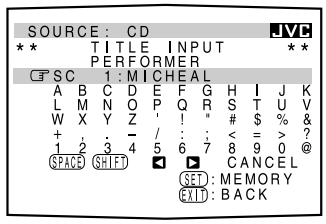
   To correct an incorrect character:
   1) Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ to ◀ or ▶, then press SET until the incorrect character is selected.
   2) Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ to CANCEL, then press SET to erase the character.
   3) Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ in front of an correct character, then press SET to enter a correct character.

5. **Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ to "DISC1: MICHEAL (in this example)," then press SET.**
   The TITLE INPUT: DISC TITLE screen appears.

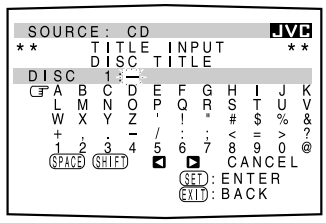
6. **Enter the disc title, referring to steps 3 and 4.**
   - If the current CD is a CD Text, go to the next step without entering the disc title.

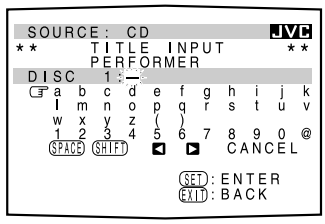
TITLE INPUT: PERFORMER screen

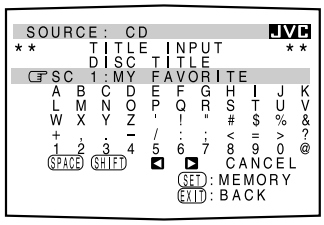




TITLE INPUT: DISC TITLE screen





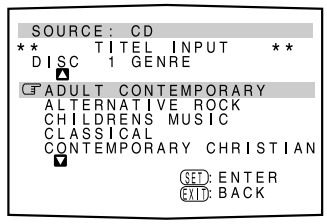


7. **Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ to "DISC1: MY FAVORITE (in this example)," then press SET.**
   The TITLE INPUT: DISC 1 GENRE screen appears.

8. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to the genre you want, then press SET.**
   The Disc Information screen appears again.

   To show the unseen genres, press ON SCREEN CONTROL △ / ▽ until they appear.

TITLE INPUT: DISC 1 GENRE screen



For the MD recorder:

You can write the disc information (disc title and song titles) into the disc. You can only write the song title for the song currently selected.

- If you have the CD-MD combination deck, you can also enter the disc information (its performer, disc title, and its music genre) of normal audio CDs into the memory built in the CD-MD combination deck. (To do this, follow the procedure on page 61.)

1. **Display the disc information screen by following the procedure on page 57.**

2. **Press ON SCREEN CONTROL △ / ▽ to move ☞ to "TITLE INPUT," then press SET.**
   The DISC TITLE INPUT screen appears on the TV.

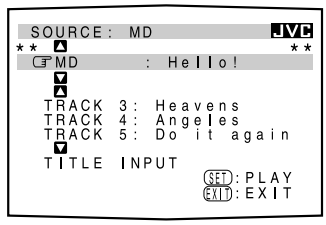
3. **Enter the disc title, referring to steps 3 and 4 on page 61.**
   - You can enter up to 32 character for the disc title.

4. **Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ to the disc title you have just entered, then press SET.**
   The disc title is stored into the memory, and the SONG TITLE INPUT screen for the currently selected song appears.
   - You can enter a song title for the song currently selected (indicated in yellow on the TV screen).

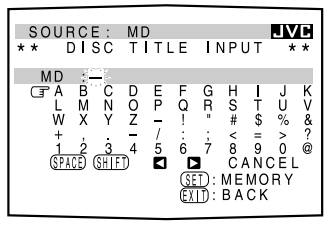
5. **Enter the song title, referring to steps 3 and 4 on page 61.**
   - You can enter up to 32 character for the song title.

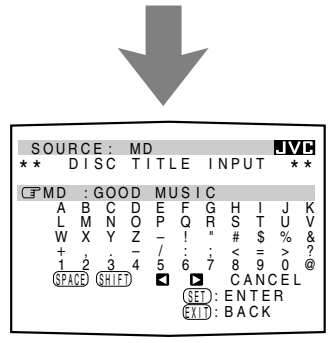
6. **Press ON SCREEN CONTROL △ / ▽ / ◁ / ▷ to move ☞ to the song title you have just entered, then press SET.**
   The song title is stored into the memory, and the Disc Information screen appears again.

Disc Information screen



DISC TITLE INPUT screen




SOURCE: MD
** DISC TITLE INPUT **
☞MD :GOOD MUSIC
A B C D E F G H I J K
L M N O P Q R S T U V
W X Y Z – ! " # $ % &
+ , . – / : ; < = > ?
1 2 3 4 5 6 7 8 9 0 @
SPACE SHIFT CANCEL
SET: ENTER
EXIT: BACK

Operating JVC's Audio/Video Components

You can operate JVC's audio and video components with this receiver's remote control, since control signals for JVC components are preset in the remote control.

IMPORTANT:

To operate JVC's audio components using this remote control:

- You need to connect JVC audio components through the COMPU LINK-3 (SYNCHRO) jacks (see page 55) in addition to the connections using cables with RCA pin plugs (see page 9) or using digital cables (see page 12).
- Aim the remote control directly at the remote sensor on the receiver.

Tuner

After pressing FM/AM (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations:

FM/AM: Alternates between FM and AM (MW/LW).

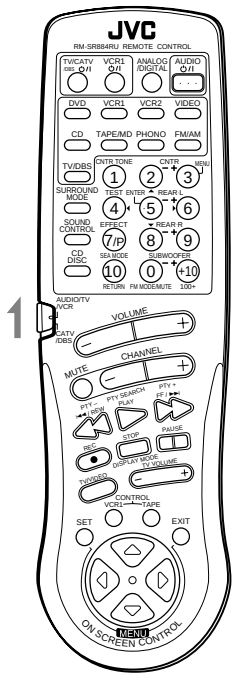
1 – 10, +10: Selects a preset channel number directly. For channel number 5, press 5. For channel number 15, press +10, then 5. For channel number 20, press +10, then 10.

PTY SEARCH: Searches for a program by PTY codes.

PTY +/–: Selects the PTY codes.

DISPLAY MODE: Shows the RDS signals.

FM MODE/MUTE: Changes the FM reception mode.



Sound control section (Amplifier)

You can always perform the following operations (*with the remote control mode selector set to "AUDIO/TV/VCR"*):

SURROUND MODE: Changes the DSP modes.

After pressing SOUND CONTROL (*with the remote control mode selector set to "AUDIO/TV/VCR")*, you can perform the following operations:

SEA MODE: Changes the SEA modes.

SUBWOOFER +/–: Adjusts the subwoofer output level.

CNTR +/–: Adjusts the center speaker output level.

REAR•L +/–: Adjusts the left rear speaker output level.

REAR•R +/–: Adjusts the right rear speaker output level.

EFFECT: Selects the effect level.

TEST: Turns on or off the test tone output.

CNTR TONE: Selects the center tone.

CD player

After pressing CD (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on a CD player:

PLAY: Starts playing.

⏮: Returns to the beginning of the current (or previous) track.

⏭: Skips to the beginning of the next track.

STOP: Stops playing.

PAUSE: Pauses playing. To release it, press PLAY.

1 – 10, +10: Selects a track number directly.
For track number 5, press 5. For track number 15, press +10, then 5. For track number 20, press +10, then 10. For track number 30, press +10, +10, then 10.

Notes:

- *If you use the buttons on the front panel or the menu function to choose a source, the remote control will not operate that source. To operate a source with the remote control, the source must be selected using buttons on the remote control.*
- *Check to see if its remote control mode selector is set to the correct position. To operate audio system, TVs, and VCRs, set it to "AUDIO/TV/VCR."*
- *Refer also to the manuals supplied with your components.*

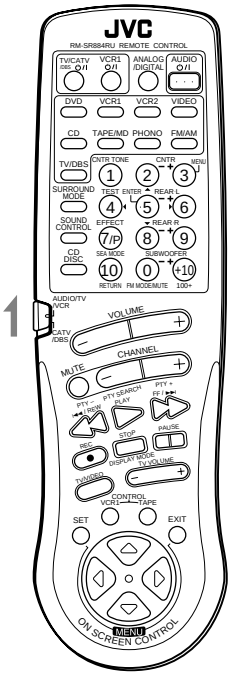
Note:

After adjusting sounds, press the corresponding source selecting button or CD DISC to operate your target source by using 10 keys; otherwise, 10 keys cannot be used for operating your target source.

CD player-changer

After pressing CD DISC (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on the CD player-changer:

PLAY: Starts playing.
⏮: Returns to the beginning of the current (or previous) track.
⏭: Skips to the beginning of the next track.
STOP: Stops playing.
PAUSE: Pauses playing. To release it, press the PLAY button.
1 – 6, 7/P: Select the number of a disc installed in a CD player-changer.



After pressing CD (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on the CD player-changer:

1 – 10, +10: Selects a track number directly.
For track number 5, press 5. For track number 15, press +10, then 5. For track number 20, press +10, then 10. For track number 30, press +10, +10, then 10.

Turntable

After pressing PHONO (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on the turntable:

PLAY: Starts playing.
STOP: Stops playing.

Cassette deck

After pressing TAPE/MD or TAPE CONTROL (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on the cassette deck:

PLAY: Starts playing.
REW: Fast winds the tape from right to left.
FF: Fast winds the tape from left to right.
STOP: Stops operations.
PAUSE: Pauses playing or recording temporarily. To release it, press the PLAY button.
REC ●: Press this button with the PLAY button to start recording.
Press this button with the PAUSE button to enter recording pause.

MD recorder

After pressing TAPE/MD or TAPE CONTROL (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on the MD recorder:

PLAY: Starts playing.
⏮: Returns to the beginning of the current (or previous) track.
⏭: Skips to the beginning of the next track.
STOP: Stops playing.
PAUSE: Pauses playing. To release it, press the PLAY button.
REC ●: Press this button with the PLAY button to start recording.
Press this button with the PAUSE button to enter recording pause.

Notes:

- *To operate the cassette deck or MD recorder using the COMPU LINK remote control system, set the source name correctly. (See page 18.)*
- *You can use either the TAPE/MD button or the TAPE CONTROL button to activate the buttons listed to the left. If you press TAPE/MD, the playing source also changes. On the other hand, if you press TAPE CONTROL, the playing source does not change.*

Operating JVC's Audio/Video Components

IMPORTANT:

To operate JVC's video components using this remote control:

- Aim the remote control directly at the remote sensor on the VCR, DVD player or TV, not on the receiver.

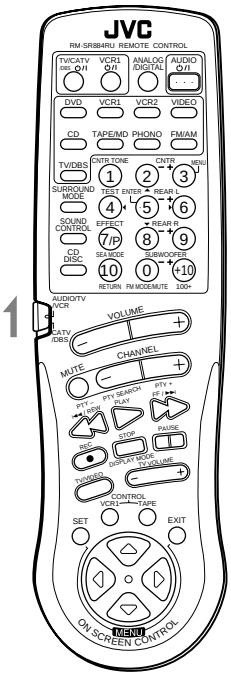
VCR1 (the VCR connected to the VCR1 jacks)

You can always perform the following operations (*with the remote control mode selector set to "AUDIO/TV/VCR"*):

VCR1 ⏻/I : Turns on or off the VCR1.

After pressing VCR1 or VCR1 CONTROL (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on the VCR:

PLAY: Starts playing.
REW: Rewinds a tape.
FF: Fast winds a tape.
STOP: Stops operations.
PAUSE: Pauses playing or recording temporarily. To release it, press the PLAY button.
REC ●: Press this button with the PLAY button to start recording.
Press this button with the PAUSE button to enter recording pause.
CHANNEL +/–: Changes the channels on the VCR.
1 – 9, 0: Selects the channels on the VCR.
For channel 5, press 5.
For channel 10, press 1, then 0.



Notes:

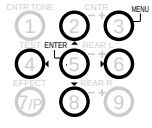
- *Some JVC VCRs can accept two types of the control signals — code "A" and "B." Before using this remote control, make sure that the remote control code of the VCR1 is set to code "A."*
- *You can use either the VCR1 button or the VCR1 CONTROL button to activate the buttons listed to the left. If you press VCR1, the playing source also changes. On the other hand, if you press VCR1 CONTROL, the playing source does not change.*

DVD player

After pressing DVD (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on a DVD player:

PLAY: Starts playing.
⏮: Returns to the beginning of the current (or previous) track.
⏭: Skips to the beginning of the next track.
STOP: Stops playing.
PAUSE: Stops playing temporarily. To release it, press the PLAY button.

After pressing DVD (*with the remote control mode selector set to the "AUDIO/TV/VCR" position*), these buttons can be used for the DVD menu operations.



Note:

For detailed menu operations, refer to the instructions supplied with the discs or the DVD player.

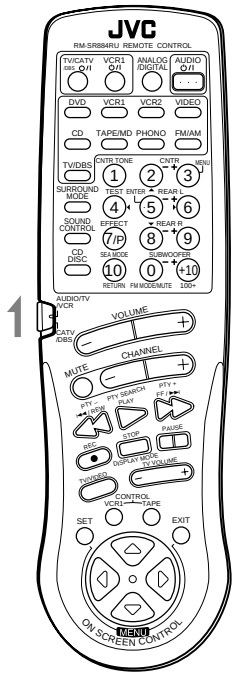
TV

You can always perform the following operations (*with the remote control mode selector set to "AUDIO/TV/VCR")*:

TV/CATV/DBS ⏻/I : Turns on or off the TV.
TV VOLUME +/–: Adjusts the volume.
TV/VIDEO: Sets the input mode (either TV or VIDEO).

After pressing TV/DBS (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on a TV:

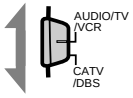
CHANNEL +/–: Changes the channels.
1 – 9, 0, 100+: Selects the channels.
RETURN: Alternates between the previously selected channel and the current channel.



Operating Other Manufactures' Components

This remote control supplied with the receiver can transmit control signals for other manufacturers' VCRs, TVs, CATV converters and DBS tuners. By changing the transmittable signals from preset ones to the other manufacturers', you can operate the other manufacturer's components using this remote control.

When operating the other manufacturers' components, refer also to the manuals supplied with them.
To operate these components with the remote control, first you need to set the manufacturer's code each for the VCR, TV, CATV converter, and DBS tuner.



IMPORTANT:

When using the Remote Control, check to see if its remote control mode selector is set to the correct position:
To operate an audio system, TV, and VCR, set it to "AUDIO/TV/VCR."
To operate a CATV converter and DBS tuner, set it to "CATV/DBS."

To change the transmittable signals for operating another manufacturer's TV

1. **Set the remote control mode selector to "AUDIO/TV/VCR."**

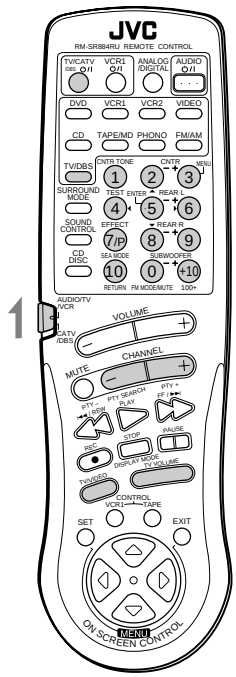
2. **Press and hold TV/CATV/DBS ⏻/I .**

3. **Press TV/DBS.**

4. **Enter the manufacturer's code (three digits) using buttons 1 – 9, and 0.**
   See the lists on pages 70 and 71 to find the code.

5. **Release TV/CATV/DBS ⏻/I .**
   The following buttons can be used for operating the TV (*with the remote control mode selector set to "AUDIO/TV/VCR"*):
   TV/CATV/DBS ⏻/I : Turns on and off TV.
   TV VOLUME +/–: Adjusts the volume.
   TV/VIDEO: Sets the input mode (either TV or VIDEO).

   After pressing TV/DBS (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on the TV:
   CHANNEL +/–: Changes the channels.
   1 – 10, 0, 100+(+10): Selects the TV channels. 100+(+10) button will function as the ENTER button if your TV requires pressing ENTER after selecting a channel number.



6. **Try to operate your TV by pressing TV/CATV/DBS ⏻/I .**
   When your TV turns on or off, you have entered the correct code.

7. **If there are more than one code listed for your brand of TV, try each one until the correct one is entered.**

Note:

Refer also to the manual supplied with your TV.

To change the transmittable signals for operating a CATV converter or DBS tuner

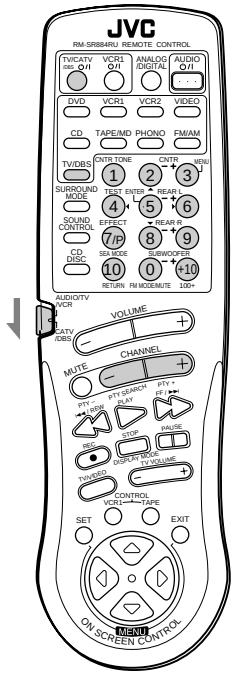
1. **Set the remote control mode selector to "CATV/DBS."**

2. **Press and hold TV/CATV/DBS ⏻/I .**

3. **Press TV/DBS.**

4. **Enter the manufacturer's code (three digits) using buttons 1 – 9, and 0.**
   See the lists on page 72 to find the code.

5. **Release TV/CATV/DBS ⏻/I .**
   After setting the remote control mode selector to "CATV/DBS," you can perform the following operations on the CATV converter or on the DBS tuner:
   TV/CATV/DBS ⏻/I : Turns on and off the CATV converter or DBS tuner.
   CHANNEL +/–: Changes the channels.
   1 – 10, 0, 100+(+10): Selects the channels. 100+(+10) button will function as the ENTER button if your CATV converter or DBS tuner requires pressing ENTER after selecting a channel number.



6. **Try to operate your CATV converter or DBS tuner by pressing TV/CATV/DBS ⏻/I .**
   When your CATV converter or DBS tuner turns on or off, you have entered the correct code.

7. **If there are more than one code listed for your brand of CATV converter or DBS tuner, try each one until the correct one is entered.**

Note:

Refer also to the manual supplied with your CATV converter or DBS tuner.

Operating Other Manufactures' Components

To change the transmittable signals for operating another manufacturer's VCR

1. **Set the remote control mode selector to "AUDIO/TV/ VCR."**

2. **Press and hold VCR1 ⏻/I .**

3. **Press VCR1.**

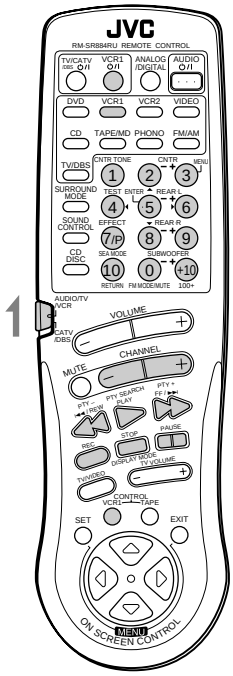
4. **Enter the manufacturer's code (three digits) using buttons 1 – 9, and 0.**
   See the lists on pages 72 and 73 to find the code.

5. **Release VCR1 ⏻/I .**
   The following buttons can be used for operating the VCR (*with the remote control mode selector set to "AUDIO/TV/ VCR"*):
   VCR1 ⏻/I : Turns on and off VCR.

   After pressing VCR1 or VCR1 CONTROL (*with the remote control mode selector set to "AUDIO/TV/VCR"*), you can perform the following operations on the VCR:
   CHANNEL +/–: Changes the channels on the VCR.
   1 – 10, 0, 100+(+10): Selects the channels on the VCR. 100+(+10) button will function as the ENTER button if your VCR requires pressing ENTER after selecting a channel number.
   PLAY: Starts playback.
   STOP: Stops operations.
   PAUSE: Pauses.
   REW: Rewinds a tape.
   FF: Fast winds a tape.
   REC ●: Starts recording or enters recording pause.

6. **Try to operate your VCR by pressing VCR1 ⏻/I .**
   When your VCR turns on or off, you have entered the correct code.

7. **If there are more than one code listed for your brand of VCR, try each one until the correct one is entered.**



Notes:

- *You can use either the VCR1 button or the VCR1 CONTROL button to activate the buttons listed to the left. If you press VCR1, the playing source also changes. On the other hand, if you press VCR1 CONTROL, the playing source does not change.*
- *Refer also to the manual supplied with your VCR.*

Manufacturers' codes for TV

Acura	009
Admiral	087, 163
Adyson	217
Akai	208
Akura	218
Alba	009, 036, 037, 211, 218, 235
Amplivision	217
Amstrad	009, 171, 177, 354, 362
Anitech	009
Arcam	217
ASA	087
Asuka	218
Audiosonic	037
Autovox	087
Bang & Olufsen	087
Basic Line	009, 218
Baur	010, 037, 512
Beon	037
Binatone	217
Blaupunkt	195
Blue Sky	218
Blue Star	282
Bondstec	247
Boots	217
BPL	282
Brandt	335
Brionvega	087
Bruns	087
BTC	218
Bush	009, 036, 037, 211, 218, 282, 355, 519
Carrefour	036
Cascade	009
Cathay	037
Centurion	037
Century	087
CGE	247
Cimline	009
Clarivox	037
Clatronic	247
Contec	009, 036
Crosley	087
Crown	009, 037
CTC	247
Cybertron	218
Daewoo	009, 037
Dainichi	218
Dansai	037
Dayton	009
De Graaf	208, 227
Decca	037, 072, 249
Dixi	009, 037
Dual	519
Dual Tec	217
Dumont	070, 087
Elin	037
Elite	218
Elta	009
Emerson	087
Erres	037
Ferguson	005, 037, 073, 190, 335
Fidelity	372
Finlandia	208, 346
Finlux	037, 070, 072, 087, 179, 346
Firstline	009, 217, 247, 321
Fisher	208, 217
Formenti	037, 087
Frontech	163, 247, 448
Fujitsu	072
Funai	179
GEC	037, 043, 072, 217
Geloso	009
Genexxa	163, 218
Goldstar	037, 217, 290
Goodmans	036, 037, 072, 179, 217, 235, 257, 317
GPM	218
Graetz	163
Granada	037, 072, 146, 201, 208, 217, 339
Grandin	282
Grundig	070, 195
Hanseatic	037
Harwood	257
HCM	009, 282
Hinari	009, 036, 037, 179, 218
Hisawa	282
Hitachi	032, 036, 043, 044, 163, 217, 225, 227
Hypson	037, 282
ICE	217
ICeS	218
ITT	163
Imperial	247
Indiana	037
Ingelen	163
Inno Hit	072
Interfunk	037, 163, 247, 512
Intervision	037, 217
Isukai	218
JVC	036, 053, 190, 192
Kaisui	009, 217, 218, 282
Kapsch	163
Kendo	037, 235, 362
Korpel	037
Korting	087
Koyoda	009
Leyco	037, 072
Liesenk & Tter	037
Lloytron	032
Loewe	087, 512
M Electronic	009, 037, 163, 217, 346
Magnadyne	087, 247
Manesth	217, 235
Marantz	037
Marelli	087

Mark	037
Matsui	009, 011, 035, 036, 037, 072, 177, 208, 211, 217, 235, 354, 355, 443
McMichael	043
Mediator	037
Memorex	009
Metz	087
Minerva	070
Mitsubishi	036, 087, 108, 201, 354, 512
Mivar	290
MTC	512
Multitech	009
Neckermann	037, 087
NEI	037
Nesco	179
Nikkai	032, 035, 037, 072, 218
Oceanic	163
Orion	037, 177, 235, 321, 355
Osaki	032, 072, 217, 218, 257
Oso	218
Osume	032, 072, 157
Otake	317
Otto Versand	010, 036, 037, 217, 512
Panama	217
Panasonic	100, 163, 214, 250, 340
Pausa	009
Phase	032
Philco	087, 247
Philips	037, 043, 087
Phoenix	087
Phonola	037, 087
Pioneer	163
Profex	009
Proline	321
Protech	009, 037, 217, 247
Quelle	010, 011, 037, 070, 512
Questa	036
R-Line	037
Radiola	037
Radiomarelli	087
Rank Arena	036
RBM	070, 089
Rediffusion	201
Revox	037
Rex	163
RFT	087
Roadstar	009, 218
SBR	037, 043
SEG	036, 217
SEI	087, 177
Saba	087, 163, 335
Saikou	257
Saisho	009, 011, 177, 211, 235, 354
Salora	163
Samsung	009, 037, 217, 290
Sanyo	011, 036, 072, 146, 157, 208, 339
Schneider	037, 218, 247
Sei-Sinudyne	010
Seleco	163, 362
Sentra	035
Sharp	036, 093
Siarem	087
Siemens	037, 157, 195
Silver	036
Singer	087
Sinudyne	087, 177, 235
Solavox	032, 163
Sonitron	208
Sonoko	009, 037
Sonolor	163, 208
Sontec	037
Sony	010, 011, 036
Soundwave	037
Standard	009, 217, 218
Stern	163
Sunkai	321, 355
Susumu	218
Sysline	037
Tandy	072, 163, 217, 218
Tashiko	036, 043, 217
Tatung	037, 072, 217, 249
Tec	217, 247
Technics	250
Technol Ace	179
Telefunken	005, 262, 335
Teletech	009
Teleton	217
Tensai	218, 317
Texet	218
Thorn	035, 037, 072, 190, 192, 512
Tomashi	282
Toshiba	035, 036, 070, 089
Triumph	177
Ultra	192
Universum	037, 346
Vestel	037
Videosat	247
Videotechnic	217
Voxson	087, 163
Waltham	217
Watson	037
Wega	036, 087
White Westinghouse	037
Yoko	037, 217

Manufacturers' codes for CATV converters

British Telecom	105
France Telecom	451
Jerrold	003, 276
PVP Stereo Visual Matrix	003
Scientific Atlanta	008, 277
United Cable	003
Westminster	105

Manufacturers' codes for DBS tuner

Akai	515
Alba	515
Amstrad	345
Astra	108
BT	515
Bush	522
Cambridge	515
Cyrus	200
DNT	200
Finlux	108
Gooding	571
Grundig	328, 571, 750
Hirschmann	573
ITT	108
JVC	515, 571
Kathrein	200
Luxor	108, 573
Marantz	200
Maspro	328, 750
Matsui	571
Minerva	571
Nokia	108, 328, 573
Orion	522
Pace	328, 795
Palladium	571
Philips	200, 328, 571, 750
RFT	200
Radiola	200
Salora	108
Satec	328
Universum	571
Ventana	200

Manufacturers' codes for VCR

Aiwa	000
Akai	106
Alba	209, 278
Amstrad	000, 278
ASA	037, 081
Asuka	037
Baird	000, 104
Basic Line	278
Blaupunkt	034, 226
Brandt	320
Bush	209, 278
CGE	000
Crown	278
Daewoo	278
De Graaf	042, 166
Decca	000, 081
Dumont	000, 081, 104
ESC	278
Ferguson	320
Fidelity	000
Finlandia	081, 104
Finlux	000, 042, 081, 104
Firstline	037, 043, 045, 209
Fisher	104
Funai	000
GEC	081
GoldStar	037
Goodmans	000, 037, 278
Graetz	104
Granada	081, 104
Grandin	000, 037
Grundig	034, 081, 226
Hanseatic	037
Hitachi	000, 042, 166
ITT	104, 106
ITV	037, 278
Imperial	000
Interfunk	081
JVC	067
Kendo	106, 209
Lenco	278
Loewe	037, 081
Luxor	043, 048, 104, 106
M Electronic	000
Manesth	045
Marantz	081
Matsui	209
Memorex	000, 037, 104
Mitsubishi	043, 067, 081
Multitech	000
Murphy	000
NEC	067
Nechermann	081
Nokia	048, 104, 106
Nordmende	320
Oceanic	000

Orion	209
Osaki	000, 037
Otto Versand	081
Palladium	037
Panasonic	226
Pentax	042
Perdio	000
Philips	081
Phonola	081
Pioneer	067, 081
Proline	000
Pye	081
Quelle	081
Radiola	081
Roadstar	037, 278
SBR	081
SEI	081
Saba	320
Saisho	209
Salora	043, 106
Sansui	067
Sanyo	104
Schaub Lorenz	000, 104
Schneider	000, 081
Sharp	048
Shintom	104
Siemens	037, 081, 104
Silva	037
Singer	045
Sinudyne	081
Sontec	037
Sony	032, 033, 034
Sunstar	000
Suntronic	000
Tashiko	000
Tatung	000, 081
Technics	226
Telefunken	320
Tensai	000
Thomson	320
Thorn	104
Toshiba	043, 045, 081
Universum	000, 037, 081, 106

Manufacturers' codes listed on page 70 to 73 are subject to change without notice. If they are changed, this remote control cannot operate the equipment.

Troubleshooting

English

Use this chart to help you solve daily operational problems. If there is any problem you cannot solve, contact your JVC service center.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The display does not light up.	The power cord is not plugged in or the ⏻ POWER switch pressed to set it in the ▙OFF position.	Plug the power cord into an AC outlet and/or press ⏻ POWER to set it in the ▂ON position.
No sound from speakers.	Speaker signal cables are not connected.	Check speaker wiring and reconnect if necessary.
	The SPEAKERS 1 and 2 buttons are not set correctly.	Press SPEAKERS 1 and 2 correctly.
	An incorrect source is selected.	Select the correct source.
	Muting is activated.	Press MUTE to cancel the mute.
Sound from one speaker only.	Speaker signal cables are not connected properly.	Check speaker wiring and reconnect if necessary.
	The balance is set to one extreme.	Adjust the balance properly (see page 19).
Continuous hiss or buzzing during FM reception.	Incoming signal is too weak.	Connect an outside FM antenna or contact your dealer.
	The station is too far away.	Select a new station.
	An incorrect antenna is used.	Check with your dealer to be sure you have the correct antenna.
	Antennas are not connected properly.	Check connections.
Occasional cracking noise during FM reception.	Ignition noise from automobiles.	Move the antenna farther from automobile traffic.
No colors on the on-screen display.	The color system of the connected TV is not PAL.	Connect a PAL TV.
Howling during record playing.	Your turntable is too close to speakers.	Move speakers away from the turntable.
"OVERLOAD" starts flashing on the display.	Speakers are overloaded because of high volume.	Rotate the MASTER VOLUME control counterclockwise three or four times then press STANDBY/ON ⏻/I on the front panel. If "OVERLOAD" does not disappear, unplug the AC power cord, then plug it back again.
	Speakers are overloaded because of short circuit of speaker terminals.	Press STANDBY/ON ⏻/I on the front panel then check the speaker wiring. If "OVERLOAD" does not disappear, unplug the AC power cord, then plug it back again. If speaker wiring is not short-circuited, contact your dealer.
Remote control does not work.	The remote control mode selector is not set correctly.	Set the selector correctly either to "AUDIO/TV/VCR" or to "CATV/DBS."
	There is an obstruction in front of the remote sensor on the receiver.	Remove the obstruction.
	Batteries are weak.	Replace batteries.

English

Specifications

Amplifier

Output Power
- At Stereo operation
  - Front channels: 100 watts per channel, min. RMS, driven into 4 ohms at 1 kHz, with no more than 0.7 % total harmonic distortion. (IEC268-3/DIN)

    50 watts per channel, min. RMS, driven into 8 ohms at 1 kHz, with no more than 0.7 % total harmonic distortion. (IEC268-3/DIN)
- At Surround operation
  - Front channels: 70 watts per channel, min. RMS, driven into 4 ohms at 1 kHz, with no more than 0.8 % total harmonic distortion.
  - Center channel: 70 watts, min. RMS, driven into 4 ohms at 1 kHz, with no more than 0.8 % total harmonic distortion.
  - Rear channels: 70 watts per channel, min. RMS, driven into 4 ohms at 1 kHz, with no more than 0.8 % total harmonic distortion.

Total Harmonic Distortion (8 ohms, 1 kHz): 0.02 %* at 50 watts output (* Measured by JVC Audio Analysis System)

Audio Input Sensitivity/Impedance (1 kHz)
- PHONO (MM): 2.5 mV/47 k ohms
- CD, TAPE/MD, TV SOUND/DBS, VCR1, VCR2, VIDEO, DVD: 200 mV/47 k ohms

Audio Input (DIGITAL IN)
- Coaxial: DIGITAL 1 (DBS): 0.5 Vp-p/75 ohms
- Optical: DIGITAL 2 (DVD), DIGITAL 3 (CD): –21 dBm to –15 dBm (660 nm ±30 nm)

Audio Output Level
- TAPE/MD, VCR1, VCR2: 200 mV

Signal-to-Noise Ratio ('66 IHF/DIN)
- PHONO: 70 dB/66 dB
- CD, TAPE/MD, TV SOUND/DBS, VCR1, VCR2, VIDEO, DVD: 87 dB/67 dB

Frequency Response (8 ohms)
- PHONO: 20 Hz to 20 kHz (±1 dB)
- CD, TAPE/MD, TV SOUND/DBS, VCR1, VCR2, VIDEO, DVD: 20 Hz to 20 kHz (±1 dB)

RIAA Phono Equalization: ±0.5 dB (20 Hz to 20 kHz)

Loudness Control (Volume Control at –30 dB)
- +6 ±1 dB at 100 Hz
- +4 ±1 dB at 10 kHz

S.E.A.
- Center Frequencies: 100 Hz, 1 kHz, 10 kHz
- Control Range: ±10 dB ±2 dB

Video

Video Input Sensitivity/Impedance	Composite video: TV SOUND/DBS, VCR1, VCR2, VIDEO, DVD	1 Vp-p/75 ohms
	S-video: TV SOUND/DBS, VCR1, VIDEO, DVD	
	(Y: luminance):	1 Vp-p/75 ohms
	(C: chrominance, burst):	0.286 Vp-p/75 ohms
Video Output Level	Composite video: VCR1, VCR2, MONITOR OUT	1 Vp-p/75 ohms
	S-video: VCR1, MONITOR OUT	1 Vp-p/75 ohms
	(Y: luminance):	1 Vp-p/75 ohms
	(C: chrominance, burst):	0.286 Vp-p/75 ohms
Synchronization		Negative
Signal-to-Noise Ratio		45 dB
On-Screen Color System		PAL

FM tuner (IHF)

Tuning Range		87.5 MHz to 108.0 MHz
Usable Sensitivity	Monaural	12.7 dBf (1.2 µV/75 ohms)
50 dB Quieting Sensitivity	Monaural	16.3 dBf (1.8 µV/75 ohms)
	Stereo	38.3 dBf (22.5 µV/75 ohms)
Signal-to-Noise Ratio (IHF-A weighted)	Monaural	80 dB at 85 dBf
	Stereo	73 dB at 85 dBf
Total Harmonic Distortion	Monaural	0.15 % at 1 kHz
	Stereo	0.2 % at 1 kHz
Stereo Separation at REC OUT		40 dB at 1 kHz
Capture Ratio		1.5 dB at 85 dBf
Alternate Channel Selectivity		60 dB: (±400 kHz)
Frequency Response		30 Hz to 15 kHz: (+0.5 dB, –3 dB)

AM (MW/LW) tuner

Tuning Range		522 kHz to 1,629 kHz (MW) 144 kHz to 288 kHz (LW)
Usable Sensitivity	Loop antenna	300 µV/m (MW) 600 µV/m (LW)
Signal-to-Noise Ratio		50 dB (100 mV/m)

General

Power Requirements	AC 230V∿, 50 Hz
Power Consumption	280 watts 2 watts (in standby mode)
Dimensions (W x H x D)	435 x 157 x 412.5 mm (17 3/16 x 6 3/16 x 16 1/4 inches)
Mass	11.3 kg (25.0 lbs)

Designs & specifications are subject to change without notice.

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